

# Networks Centre **PRODUCT CATALOGUE**





Welcome to the Networks Centre catalogue...

# Your complete guide to our extensive product range

Established in 2005, Networks Centre has fast become one of the UK's leading Network Cabling and Security product distributors; offering an extensive range of premier cabling systems and quality networking products.

## Exceeding your expectations is our number one objective

We want you to understand how committed we are to supporting your business... As a company we do not aim to be the biggest, we strive to be the best. With today's business demands, we understand you need a professional, fast, effective and helpful service from your distributor. Our approach is to act as a partner, understand your requirements and tailor the way we service your account, to suit the way you do business.

## Customer Service Level Promises

- Each customer has a dedicated Internal Account Manager to provide quotes, process orders, and offer advice and support.
- Internal/External Technical Support.
- All standard quotations are either completed on the spot or e-mailed direct within a maximum 30 minute time frame.
- All acknowledgements are e-mailed within 30 minutes of processing an order.
- We accept orders for next day delivery up to 6pm.

## Manufacturing Partners

Networks Centre has forged and developed strong relationships with a number of industry leading manufacturers. Year on year, we have increased our stock holding across all product categories, to ensure we can offer highly competitive prices on all our stocked brands. To offer our customers a high level of customer and technical service, we work hand in hand with our manufacturing partners, to facilitate you with the resources to win and rollout projects of all sizes.

## Training Programmes

At Networks Centre we offer in-house and onsite technical training. We cover subjects from operating test and measurement equipment, through to optical and copper accreditation courses.

Investment in developing the skills of staff sends the message that they are valued members of your business. Giving them the skills to carry out their jobs correctly can boost their effectiveness, which reduces errors and makes your life easier... For more information please contact our sales team.

## 3 Ways to Pay



**Open an account** (Interest free credit)



**Credit or Debit card**



**Cash or Cheque**



Can't find what you're looking for? Then contact us...



**We make  
ordering easy**

Sales Office opening hours  
(8am-6pm)



 **+44 (0)1403 754233**

 **+44 (0)1403 750663**

 **enquiries@networkscentre.com**

 **www.networkscentre.com**

#### Delivery options

- Standard Next Day Delivery
- Pre 12:00am
- Pre 10:30am
- Pre 9:00am
- Same Day



**We understand you have a choice;  
it's our aim to make that choice is always**

**networkscentre .**

Networks Centre Ltd  
Head Office, Lawson Hunt Industrial Park  
Broadbridge Heath  
West Sussex RH12 3JR



# CONTENTS

**3 FIBRE OPTIC CABLING**



**43 TOOLS**



**51 COPPER CABLING**



**57 NETWORKING**



**65 BRAND REX**



**95 PANDUIT**



**135 TELECOM/VOICE PRODUCTS**



**139 CABINETS & RACKS**



**149 TEST & MEASUREMENT**



**169 SECURITY**



**187 WIRELESS**



**191 LABELLING**



**200 TERMS & CONDITIONS**

**204 HOW TO FIND US**



# FUSION SPLICER & TEST EQUIPMENT RENTALS

At Networks Centre we offer a rental service for Fusion Splicers and Test & Measurement Equipment. Below is a selection of products available for rental.

## DTX-RENTAL

DTX-1800 Cable Analyzer 900MHZ certification tester



## DTX-SFM-RENTAL

Singlemode fibre heads for DTX Cable Analyser



## DTX-MFM-RENTAL

Multimode fibre heads for DTX Cable Analyser



## DTX-OTDR-RENTAL

DTX OTDR QMOD MM/SM module for DTX Cable Analyser



## FUSION-SPLICER-RENTAL

MM/SM Core Aligning Fusion Splicer



For more information on this service please contact our sales team.



# FIBRE OPTIC CABLING

At Networks Centre we pride ourselves on being able to offer our customers one of the most extensive ranges of fibre optic cabling products in Europe.

We stock loose tube, tight buffered, steel-tape-armoured and steel-wire-armoured cables; as well as 2.8mm and flat twin zip-cord. Cables are available in: OS1, OS2, OM1, OM2, OM3 and OM4. In total, we have over ninety six cable variants, all available from stock. To compliment our optical cable stock range, we also offer a bespoke cable manufacturing service. We can manufacturer-to-order an extensive range of specialist cables, for a vast range of applications and operating environments.

Our optical patchcord range includes all standard connection types; available in up to 30m on a next day delivery service. We also offer bespoke optical patchcord and pre-term manufacturing services (UK: typical 2-3 day lead-time and Far East: 7-10 day lead-time). We can manufacture up to 6,000 optical patchcords a day; in any type of fibre, with any kind of connector, in any length and any colour.

We stock the complete range of associated optical products to ensure we can fulfil all your fibre supply requirements. If you can't find what you're looking for just give us a call.

➤ Standard Cables	4
➤ Specialist Cables	8
➤ Pre-Terminated Cables	10
➤ Patchcords	14
➤ Pigtails	16
➤ Connectors	17
➤ Adaptors	19
➤ Patch Panels/Wall Boxes & Enclosures	22
➤ Fusion Splicers & Accessories	32
➤ Attenuators	35
➤ Splitters/Couplers	36
➤ Accessories	37
➤ Cleaning & Consumables	39

**Brand-Rex** 

 **SUMITOMO**  
ELECTRIC

**FLUKE**  
networks™

**net-c™**

# STANDARD CABLES

## Up to 48 Core Cables available on a next day delivery

We hold stock of **Loose Tube, Tight Buffered, Steel Tape Armoured, Steel Wire Armoured and Zipcord cables**. Our selection of chosen brands ensures we are always able to offer market leading prices on quality industry recognised cables. All stocked cables are available on a next day delivery service; we provide a **FREE cable cutting service**, there's **NO minimum-order-quantity** and we accept orders for **next day delivery up to 6pm!**

### HOW TO CREATE OUR STANDARD FIBRE CABLE PART NUMBERS

Populate this field with the required number of fibre cores.

Eg: 04 = 4 core  
08 = 8 core  
12 = 12 core  
16 = 16 core  
24 = 24 core  
48 = 48 core etc

Populate this field with the required grade of outer sheath:

IX = LSZH  
EX = Polyethelene

Eg: 9-04-LT-GN- = 4 CORE SINGLEMODE LOOSE TUBE CABLE LSZH, INT/EXT, GREEN

X

XX

XX

XX

XX

Populate this field with the type of fibre you require:

3 = 50/125um OM3  
4 = 50/125um OM4  
5 = 50/125um OM2  
6 = 62.5/12um OM1  
9 = 09/125um OS1

Populate this field with the type of cable required:

TB = Tight Buffered  
LT = Loose Tube  
LT-CST = Corrigate Steel Tape Armoured  
LT-SWA = Steel Wire Armoured  
MLT = Multi Loose Tube

Populate this field with the required colour:

Eg: GN = Green  
BK = Black  
BE = Blue

Eg: 9-04-LT-IX-BK = SINGLEMODE LOOSE TIBE CABLE LSZH, INT/EXT, BLACK

## ► SINGLE LOOSE TUBE



### TECHNICAL SPECIFICATION

	4 – 12 core	16 – 24 core
Outer Diameter	7.2mm	8.5mm
Weight	59kg / km	72kg / km
Tensile Strength (during installation)	1200N	1200N
Tensile Strength (long term)	350N	350N
Bending Radius	Approx 10 times OD	Approx 10 times OD
Operating Temperature Range	-20 / +70	-20 / +70

- Suitable for internal and external use.
- Ducts, aerial installations and direct burial.
- Distribution and general purpose cables.
- Cable consists of a single tube containing 2 to 24 fibres.

- Water blocking gel gives a moisture protection for cable installation in ducts.
- When there are more than 12 fibres, they are divided in two groups where a coloured thread identifies each group.
- Physical protection and tensile strength are provided by aramid yarn or fibreglass wound around the tube.
- LSZH sheath for internal and external use.
- A ripcord is located under the jacket to facilitate jacket removal.
- Suitable for occasional flooded ducts.
- Polyethylene jacket available.
- Small diameter and light weight.
- Cost effective.
- Wide operating temperature range.
- Wide range of jacket options.
- Rodent resistant.
- Available in singlemode OM1, OM2, OM3 and OM4.
- Cables ordered with PVC or LSZH jackets meet IEC-60332-1 standard. Upon request, cables meeting the IEC-60332-3 can be supplied.
- Standard colour black, other colours available upon request.



Can't find what you're looking for? Then contact us...



## ➤ MULTI LOOSE TUBE



### TECHNICAL SPECIFICATION

Max. pulling load	1500-2700N or the equivalent of the cable weight per km, whichever is higher
Max. Operating Load	60% of the max pulling load
Min. bending radius for installation	20 times the cable OD
Min. long term bending radius	20 times the cable OD for armoured cables, 10 times the cable OD for unarmoured cables
Twist (torsion) – length	125 times the cable OD
Cyclic flexing	25 cycles for armoured cables, 100 cycles for unarmoured cables.

- Long distance outside plant telephone. CATV as well as data communications.
- Direct burial and installations in ducts.
- The elements are usually tubes containing fibre, however fillers are also used, when needed, to preserve cable geometry.

- The cables can be ordered with a central strength member, either made of dielectric FRP, or made of solid or stranded steel coated with polyethylene.
- 2 – 12 colour coded fibres are loosely laid in each tube that is filled with a water blocking gel.
- Standard tube diameters are 2.1mm for up to 6 fibres per tube and 2.5mm for 8 – 12 fibres per tube. (Other configurations available upon request).
- 4 – 432 fibres available.
- Available in singlemode OM1, OM2, OM3 and OM4.
- Armoured versions available – Corrugated Steel Tape and Steel Wire Armour.
- Ripcord is located under the jacket to facilitate jacket removal.
- Cables meet or exceed Bellcore requirements for outside plant cables (GR-20-CORE) when the appropriate options are chosen.
- Cables ordered with PVC or HFFR jackets meet the IEC-60332-1 standard. On request cables meeting the IEC-60332-3 can be supplied.
- Peripheral strength members may be added in order to reach the specified tensile load.
- Optical measurements are made after load removal.

## ➤ LOOSE TUBE WITH CORRUGATED STEEL TAPE ARMOUR



### TECHNICAL SPECIFICATION

	<b>4 – 24 core</b>
Weight	160kg / km
Tensile Strength (during installation)	1600N
Tensile Strength (long term)	550N
Bending Radius	Approx 20 times OD
Operating Temperature Range	-20 / +70

- Suitable for internal and external use.
- Polyethylene jacket available.
- Cable consists of a single gel filled tube containing 2 – 24 fibres.

- CST armour provides resistance against rodents.
- Crush proof.
- Aramid yarn or fibre glass is wound around the tube.
- A ripcord is located under the jacket to facilitate jacket removal.
- Suitable for ducts and direct burial.
- Suitable for occasional flooded ducts.
- Wide operating temperature range.
- Wide range of jacket options for different applications.
- When there are more than 12 fibres, they are divided in two groups where a coloured thread identifies each group.
- Over 24 fibres the cable is constructed in a multi loose tube construction.
- Available in singlemode OM1, OM2, OM3 and OM4.
- LSZH sheath for internal / external use.
- Cables ordered with PVC or LSZH jackets meet IEC-60332-1 standard. Upon request, cables meeting the IEC-60332-3 can be supplied.

## ➤ LOOSE TUBE WITH STEEL WIRE ARMOUR



- Designed to offer enhanced armoured protection against mechanical and rodent damage.
- Flexible armoured construction.
- Optimised crush resistance.
- Available in LSZH, PVC and PE sheaths.
- Suitable for direct burial and other applications within hazardous environments.
- Available in singlemode OM1, OM2, OM3 and OM4.

## ► TIGHT BUFFERED



TECHNICAL SPECIFICATION		
	4 – 12 core	16 – 24 core
Outer Diameter	7.2mm	8.5mm
Weight	59kg / km	72kg / km
Tensile Strength (during installation)	1200N	1200N
Tensile Strength (long term)	350N	350N
Bending Radius	Approx 10 times OD	Approx 10 times OD
Operating Temperature Range	-20 / +70	-20 / +70

- Short and medium distance.
- As a riser or general purpose cable.
- Suitable for direct termination.
- Interconnection of distribution boxes and customer equipment, between floors.

- 4 - 72 fibres individually buffered to 0.9mm in a tight or semi tight construction and coded.
- 4 - 24 fibre cables contain individual fibres without sub-units.
- 24 - 72 fibre cables the fibres are grouped in sub-units.
- 4 - 24 fibre cables, the individual fibres are stranded and protected by aramid yarn and a LSZH jacket (other jackets available upon request).
- 24 - 72 fibre cables, the fibres are grouped into sub-units which are laid helically along the cable axis.
- A ripcord is located under the jacket to facilitate jacket removal.
- Cost effective multi fibre cable.
- Compact and flexible construction especially suited for indoor installations.
- Available in singlemode OM1, OM2, OM3 and OM4.
- Standard colour black, other colours available upon request.
- Suitable for manufacturing pre-terminated fibre cables.
- Cables ordered with PVC or LSZH jackets meet IEC-60332-1 standard. Upon request, cables meeting the IEC-60332-3 can be supplied.
- Up to 24 fibres as standard.

### Note:

*Tactical grade tight buffer is designed to enhance the cable ruggedness and resistance to repeated flexing. Approximately 5mm of the buffer are strippable in one stripping operation.*





## ► DUPLEX ZIPCORD



### 9-DX-D28-IN-YW-NC

SINGLEMODE 2.8MM ZIPCORD  
SUITABLE FOR INTERNAL USE,  
LSZH, YELLOW



### 3-DX-D28-IN-AA-NC

OM3 2.8MM ZIPCORD SUITABLE  
FOR INTERNAL USE,  
LSZH, AQUA



### 6-DX-D28-IN-GY-NC

62.5/125UM 2.8MM ZIPCORD  
SUITABLE FOR INTERNAL USE,  
LSZH, GREY



### 5-DX-D28-IN-OE-NC

50/125UM 2.8MM ZIPCORD  
SUITABLE FOR INTERNAL USE,  
LSZH, ORANGE



#### TECHNICAL SPECIFICATION

Max. Pulling Load	400 N
Max. Operating Load	60% of the Max. Pulling Load
Max. Compressive Load	1000 N
Repeated Impact	0.5 N.m
Minimum Short and Long Term Bending Radius	10 times the cable narrowest dimensions
Twist (Torsion) – Length	100 times the cable widest dimension
Cyclic Flexing	300 cycles
Operating Temperature Range	-10C to +50C
Storage Temperature Range	-20C to +70C

- Suitable for general internal use.
- Interconnect cable for patchcords and pigtails.
- Consists of two fibres buffered to 900um in a tight or semi-tight construction.
- Physical protection and tensile strength is provided for each unit using aramid yarn.
- LSZH sheath.
- Typical cable dimensions are 2.8 x 5.6mm, however smaller constructions are also available (1.8mm).
- Lightweight and flexible.
- Easy termination, rugged cable-connector interface.
- Fibre sub-units can be easily separated from each other.
- Available in singlemode OM1, OM2, OM3 and OM4.
- Cables ordered with PVC or LSZH jackets meet IEC-60332-1 standard.
- Upon request, cables meeting the IEC-60332-3 can be supplied.

## ► FLAT TWIN



### 3-FT-D28-IN-AA-B

OM3 2.8MM FLAT TWIN CABLE  
INTERNAL USE,  
LSZH, AQUA



### 6-FT-D28-IN-GY-B

62.5-125UM 2.8MM FLAT TWIN  
CABLE INTERNAL USE,  
LSZH, GREY



### 5-FT-D28-IN-OE-B

50-125UM 2.8MM FLAT TWIN  
CABLE INTERNAL USE,  
LSZH, ORANGE



### 9-FT-D28-IN-YW-B

SINGLEMODE 2.8MM FLAT  
TWIN CABLE INTERNAL USE,  
LSZH, YELLOW



#### TECHNICAL SPECIFICATION

Max. Pulling Load	500 N
Max. Operating Load	60% of the Max. Pulling Load
Max. Compressive Load	1500 N
Repeated Impact	0.5 N.m
Minimum Short and Long Term Bending Radius	10 times the cable O.D.
Twist (Torsion) – Length	100 times the cable O.D.
Cyclic Flexing	500 cycles
Operating Temperature Range	-10C to +50C
Storage Temperature Range	-20C to +70C

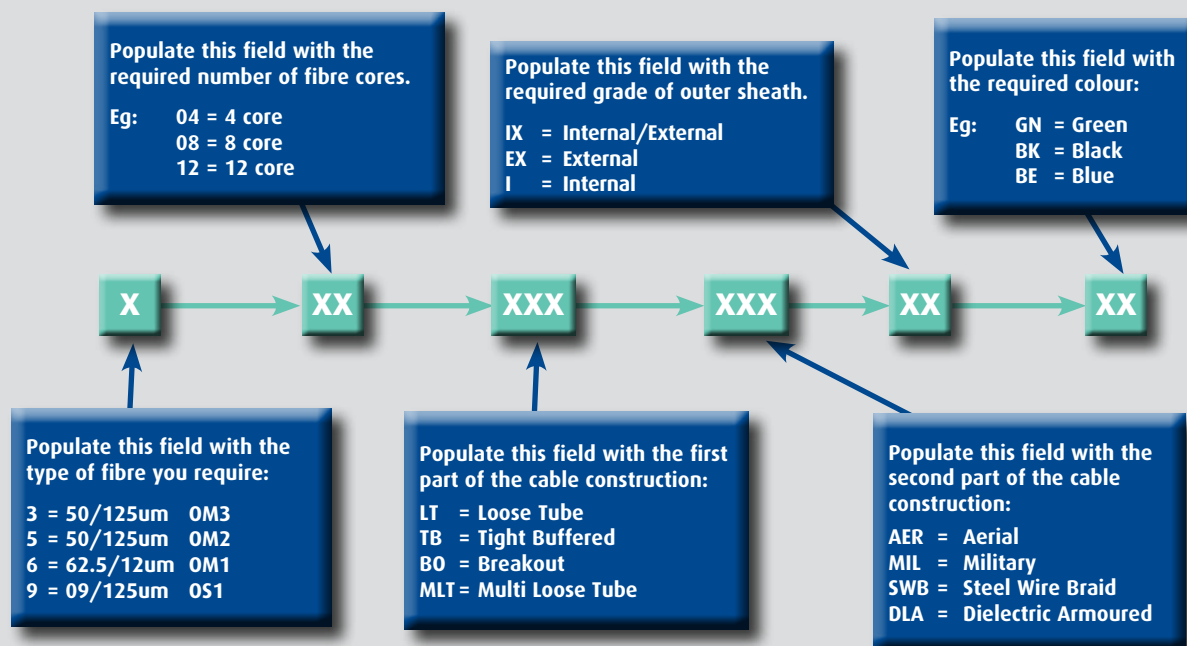
- Suitable for general internal use.
- Interconnect cable for patchcords and pigtails.
- Consists of two fibres buffered to 900um in a tight or semi-tight construction.

- Includes an extra LSZH outer sheath to offer additional strength to standard duplex zipcord.
- Internal LSZH sub-units for breaking out.
- Physical protection and tensile strength is provided for each unit using aramid yarn.
- LSZH outer sheath.
- Typical cable dimensions are 3.8 x 6.6mm, however smaller constructions are also available.
- Lightweight and flexible.
- Easy termination, rugged cable-connector interface.
- Available in singlemode OM1, OM2, OM3 and OM4.
- Cables ordered with PVC or LSZH jackets meet IEC-60332-1 standard.
- Upon request, cables meeting the IEC-60332-3 can be supplied.

## Our specialist cable manufacturing service

Our production services include fibre optic cable manufacturing. Using our European based manufacturing facility we are able to produce and deliver specialist cables within a **Three Week Time-frame**. Not only can we offer fantastic lead-times, we also manufacture-to-order with a **minimum-order-quantity of just 300m!** All cables come complete with a **manufacturer's 15 year warranty** and can be manufactured in any colour you require.

### HOW TO CREATE OUR SPECIALIST FIBRE CABLE PART NUMBERS



Eg: 9-08-BO-IX-BK = 8 CORE SINGLEMODE BREAK-OUT CABLE, LSZH, INT/EXT, BLACK

### ► MULTI LOOSE TUBE STEEL TAPE ARMOUR



- Suitable for internal and external use.
- Polyethylene jacket available.
- CST armour provides resistance against rodents.
- Crush proof.
- Aramid yarn or fibre glass is wound around the tube.
- A ripcord is located under the jacket to facilitate jacket removal.

- Suitable for occasional flooded ducts.
- Wide operating temperature range.
- Wide range of jacket options for different applications.
- When there are more than 12 fibres, they are divided in two groups where a coloured thread identifies each group.
- Over 24 fibres the cable is constructed in a multi loose tube construction.
- Available in singlemode, 50/125um, 62.5/125um and OM3.
- Available in single and multi loose tube constructions.
- LSZH sheath for internal / external use.
- Cables ordered with PVC or LSZH jackets meet IEC-60332-1 standard. Upon request, cables meeting the IEC-60332-3 can be supplied.

### ► MULTI LOOSE TUBE STEEL WIRE ARMOUR



- Designed to offer enhanced armoured protection against mechanical and rodent damage
- Flexible armoured construction
- Optimised crush resistance
- Available in LSZH, PVC and PE sheaths
- Suitable for direct burial and other applications within hazardous environments





## ► TIGHT BUFFERED STEEL WIRE BRAIDED



- Strong resistant construction using Steel Wire Braid armouring.
- Flexible metallic armoured design.
- Gel free tight buffered construction.
- Suitable for terminating directly.
- Double Jacket moisture proof sheath.
- Enhanced crush resistance design.

## ► MILITARY TIGHT BUFFERED



TECHNICAL SPECIFICATION – TIGHT BUFFERED					
Fibres	2	4	6	8	12
Diameter (mm)	5	5	5.5	6	6.5
Weight (kg/km)	23	25	28	35	40
Tensile load (kg/km)	600	600	600	600	700
Bending Radius (mm)	50	50	55	60	65

TECHNICAL SPECIFICATION – BREAK OUT					
Fibres	2	4	6	8	12
Diameter	6	7	8	9.5	11
Weight (kg/km)	30	40	50	70	90
Tensile load (kg/km)	600	600	600	800	1200
Bending Radius (mm)	60	70	80	95	110

## ► MILITARY BREAK OUT



- Available in 2 versions: tight buffered and breakout construction.
- Very strong and lightweight cable for use in military and tactical applications.
- Designed to be used in more adverse environments.
- Can be used in repeated deployment and retrieval of cable in outdoor environments.
- Suitable for applications such as outside broadcast and other temporary installations.
- Can be used in environments where resistance to chemicals, oil and other solvents are required.
- Suitable for direct connection to tactical fibre optic connectors where high cable retention force is needed.
- Excellent crush resistance.
- Can be buried directly into the ground.

## ► BREAKOUT



- Strong, flexible, resistant construction.
- Easy to install and terminate directly.
- Gel free, easy to strip.
- 900um tight buffered fibres housed in breakout sub-units with added aramid yarn for physical protection and tensile strength.
- Ideal for direct connection into active equipment and fibre to the desk.

## ► TIGHT BUFFERED DIELECTRIC ARMoured FIRE RESISTANT



- Strong resistant construction using fibre glass armouring.
- Gel free tight buffered construction.
- Suitable for terminating directly.
- Double Jacket moisture proof sheath.
- Can operate up to three hours in temperatures of 750°C.
- Enhanced crush resistance design.

## ► LOOSE TUBE ARIEL



- Stranded loose tube design, with messenger wire.
- Dielectric central strength member.
- Resistant to severe environmental conditions.
- Suitable for aerial installations along wooden/concrete poles or lattice towers.
- Generally used in railway or telecommunication applications.

## ► DIELECTRIC ARMoured DISTRIBUTION



- Very strong cable construction
- Low smoke halogen free emission
- Flame retardant
- High flexibility
- Moisture protected
- Ultraviolet resistance and rodent protected.
- Suitable for indoor and outdoor applications.

## ► FIRE RESISTANT

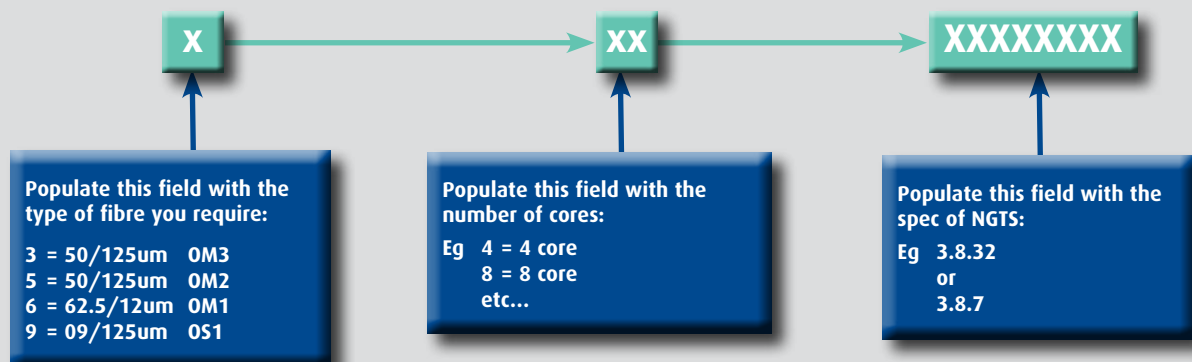


**Please call for more information**

- Independent tested.
- Unitube design offering up to 24 fibres in a 4.00mm gel filled loose tube.
- Layer of fire retardant tape.
- Low smoke halogen-free bedding.
- Steel Tape Armoured.
- Low smoke halogen-free outer sheath.

# NGTS CABLES

## HOW TO CREATE OUR NGTS FIBRE CABLE PART NUMBERS



Eg: 3-04-3.8.32 = 4 CORE OM3 50/125 NGTS 3.8.32

## ► MULTI LOOSE TUBE NGTS 3.8.32



- CST armoured underground cable for direct burial or lying in closed cable trenches.
- Multi loose tube cable with easy mid span fibre access
- Dry Water Blocked Core
- Suitable for external installation
- High Density Polyethylene sheath.
- Wide operating temperature range.

## ► EXTERNAL MULTI LOOSE TUBE NGTS 3.8.7



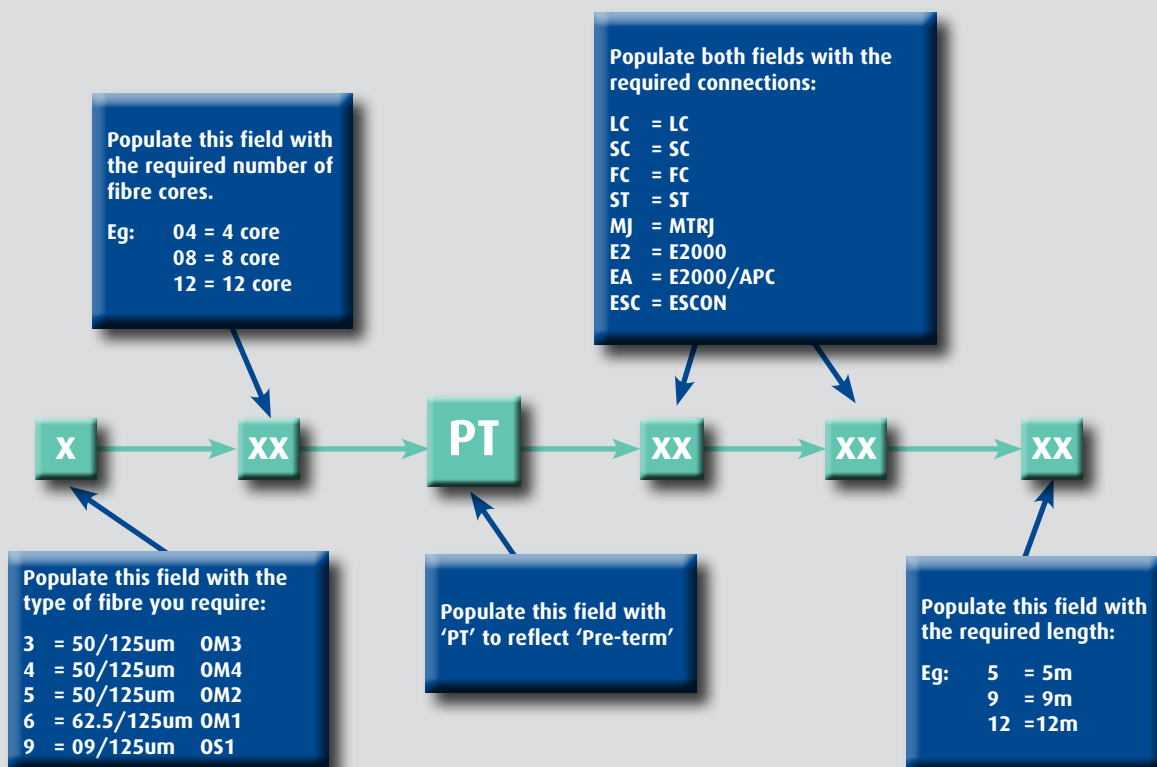
- Non-metallic armoured cable used for use in high voltage installations.
- Multi loose tube cable with easy mid span fibre access
- Dry Water Blocked Core
- Suitable for external installation
- High Density Polyethylene sheath
- Wide operating temperature range.



Can't find what you're looking for? Then contact us...



## HOW TO CREATE OUR FIBRE OPTIC PRE-TERMINATED ASSEMBLY PART NUMBERS



Eg: 9-04-PT-LC-SC-90 = 90M LC-SC 09/125UM 4 CORE PRE-TERM W/PROTECTIVE SOCK

## ➤ PRE-TERMINATED ASSEMBLIES



### Product Benefits:

- Manufactured in a controlled environment to improve quality of product.
- Reduces site storage requirements.
- Offers low installation cost.
- Confirmed test results prior to installation.
- Pulling sock supplied as standard to protect the terminated ends whilst installing.

### Available in the following cable constructions:

- Tight buffered (standard spec unless otherwise specified).
- Tight buffered steel wire braid.
- Breakout cable.
- Military cable (for re-deployable use, suitable for applications such as outside broadcast and military communications).
- Loose tube.
- Corrugated Steel Tape Armour.
- Steel wire armour.

### Available in fibre counts of:

4, 8, 12, 16, 24, 48, 72 and 96.

### Available terminations:

- ST
- LC
- SC
- FC
- E2000
- MPO
- ESCON
- FDDI

Additional military/specialist connector terminations are also available.... Contact us to discuss further!

### Fibre Types:

- Available in singlemode OM1, OM2, OM3 and OM4.



## ▶ MTP BREAKOUT ASSEMBLIES



- ▶ Used to breakout MTP assemblies into standard connection types.
- ▶ Rugged construction enables direct connection into active components.
- ▶ Tails can be staggered to aid installation.
- ▶ Available in Singlemode and Multimode.

Part No:

**MTP-BO-X-XX-12**

## ▶ MTP – MTP PRE-TERMINATED ASSEMBLIES



- ▶ Ideal for connecting between panels and cassettes.
- ▶ Available in Multimode and Singlemode and up to 72 Fibres.
- ▶ Factory tested for complete piece of mind.

Part No:

**MTP-PC-X-MTP-12-XX**

## ▶ MTP – MTP RUGGEDISED INTERNAL / EXTERNAL ASSEMBLY



- ▶ Ruggedised MTP assembly with unique connector housing.
- ▶ Offers exceptional protection during installation.
- ▶ Ideal for external applications.
- ▶ Available in Singlemode and Multimode.
- ▶ Factory tested for complete piece of mind.

Part No:

**MTP-BBC-X-MTP-12-XX**

## ▶ MTP CASSETTES



- ▶ Modular MTP cassettes allow quick and easy installation.
- ▶ Each cassette holds 12 or 24 fibres and fit into modular panels that can hold up to 4 cassettes.
- ▶ LC or SC Connections available as standard.
- ▶ Available in Singlemode and Multimode.
- ▶ Factory tested for complete piece of mind.

Part No:

**MTP-CASS-X-XX-XX**

Replace **X** with required fibre type e.g. OM3 = 3, OM4, 50/125 = 5 etc...

Replace **XX** with the required length e.g. 04 = 4metres

Replace **XX** with number of connections either 06/12/24

Replace **XX** with the required connection type either LC or SC



Can't find what you're looking for? Then contact us...

## ► REDEPLOYABLE REELS



Hand wound cable reels are ideal for redeployable cable use for various applications such as outside broadcast, temporary CCTV applications, military requirements and emergency repairs.

- Available in various sizes.
- Twin carry handles and crank handle for transportation.
- Oversize ventilated drum centre for cables requiring large bend radii (SK version).
- Build to order service for special plug, sock and reeling requirements.
- External flanges available with straps for securing cable / pullsocks.
- Available for harsh environments where chemicals, petrol and oil are common.

Part No:	Description:
<b>RL-RD-MY-XX</b>	Redeployable marcaddy cable reel
<b>XX</b> = size of drum, contact our sales team for available sizes.	

## ► CONTINUOUS RODS



- High quality fibre glass rod helically wound giving good adhesion properties for the abrasive resistant outer polyethylene coating.
- Fitted as standard with two threaded connectors and a guide tip to attach the draw rope to.
- Used for:
  - pushing into the duct
  - installing draw ropes
  - pulling in winch ropes and light cables.

Part No:	Description:
<b>CDR-60-6-F</b>	60m cable duct rod, 6mm on frame
<b>CDR-120-9-W</b>	120m cable duct rod, 9mm on wheeled trolley
<b>CDR-250-11-W</b>	250m cable duct rod 11mm on wheeled trolley

## ► HYDRAULIC JACKS



- Lightweight hydraulic drum jacks.
- Versatile and easily adjustable within seconds to accommodate a vast range of drums.
- Excellent all round stability, fitted with wheels to allow easy movement by one person.
- Supplied complete with spindle and collars.

Part Number	Minimum Drum Diameter	Maximum Drum Diameter	Capacity Pair
<b>HC-JK-HJ3</b>	800mm	2500mm	3 Tonnes
<b>HC-JK-HJ6</b>	880mm	3000mm	6 Tonnes



## Applications:

- Used to connect to the active components of a fibre optic system usually from the front of a patch panel. Applications:
  - Telecommunication
  - CATV
  - LAN and WAN
  - Network
  - Broadband
  - FTTP

## Features:

- Manufactured on a variety of cables to provide protection to the fibre:
  - Duplex (2.8mm and 1.8mm)
  - Flat twin
  - Simplex
  - Distribution
- Available in singlemode OM1, OM2, OM3 and OM4.
- Standard lengths available from stock: 1, 2, 3, 5, 10, 15, 20, 25 and 30 metre.
- Various connectors and combinations available from stock: ST, SC, LC, FC and MTRJ.
- Standard Colours:
  - Singlemode OS1 - Yellow
  - 62.5/125um OM1 - Grey (Orange also available from stock)
  - 50/125um OM2 - Orange
  - 50/125um OM3/OM4 - Aqua
- Any colour or length can be supplied to suit requirements.
- All patchcords are individually bagged with individual test certificates.

- LSZH cable sheath as standard.

- ESCON, E2000, FDDI, DIN, SMA and MU available upon request.
- Angled connector patchcords available.
- Can be labelled/branded and packaged to your requirements.
- Angled boots also available.

## Insertion Loss:

### Singlemode:

- Tested in accordance with GR-326-CORE and industry standard TIA/EIA-568-B.3.
- Maximum insertion loss shall not exceed 0.3dB against master connector, Networks Centre typical value 0.1dB.

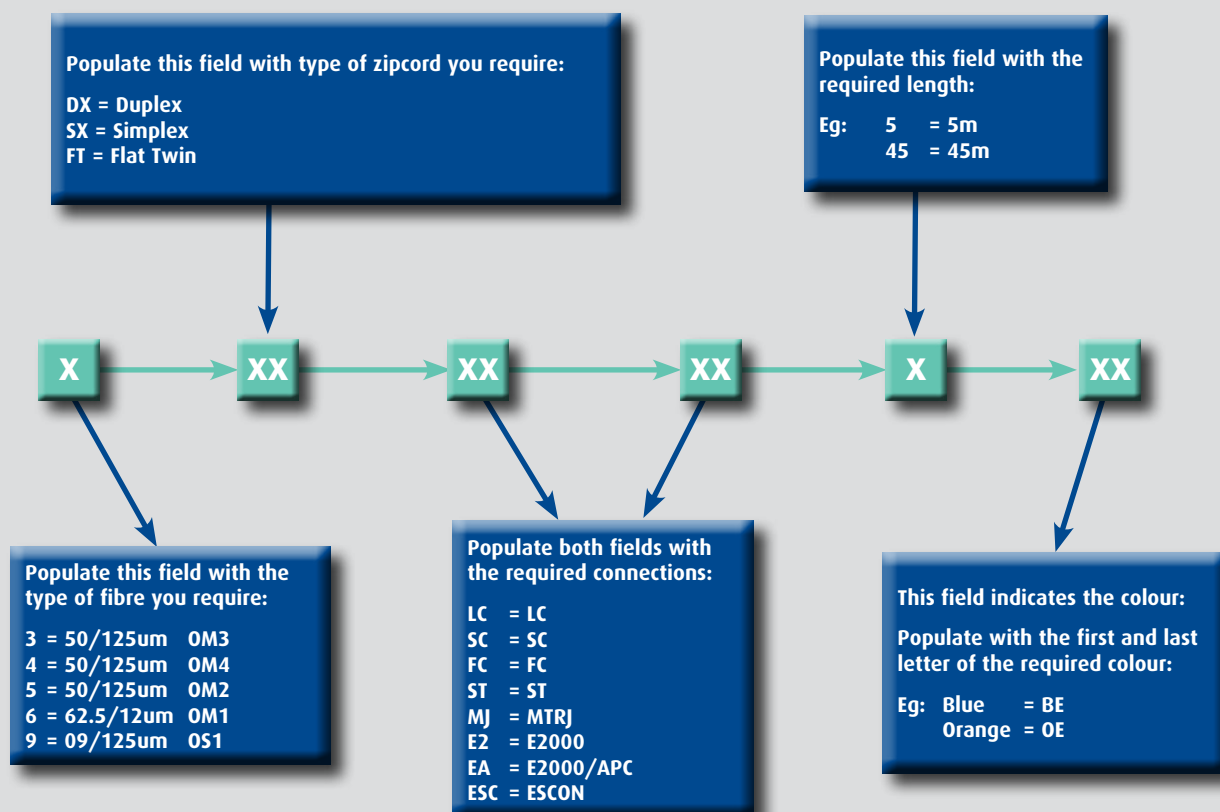
### Multimode:

- In accordance with FOTP-34 (interconnection device insertion loss test) and FOTP-171 (attenuation by substitution measurement), all tests are measured with advanced testing equipment.
- Maximum insertion loss shall not exceed 0.3dB against master connector, Networks Centre typical value 0.2dB.

## Return Loss:

For Singlemode Fibre Optic Cable Only. All patchcords follow FOTP-107 using JDSU RX and RM series power and back reflection meters for return loss measurement.

## HOW TO CREATE OUR FIBRE OPTIC PATCHCORDS PART NUMBERS



Eg: 6-DX-SC-ST-1-GY = 1M SC-ST 62.5/125UM DUPLEX PATCHCORD, GREY



Can't find what you're looking for? Then contact us...

## ALL PATCHCORDS ARE AVAILABLE IN ANY COMBINATION

### ► SC PATCHCORDS



- Easy push – pull installation.
- Meet Bellcore GR-326 requirements.
- Duplex clip available separately.
- Available in angled version.

### ► ST PATCHCORDS



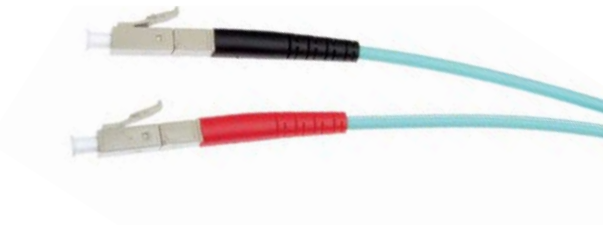
- Bayonet coupling minimises the rotation needed to mate the connector.
- Singlemode and multimode versions available.
- Available in angled version.

### ► FC PATCHCORDS



- Threaded metallic coupling provides durable reliable connections.
- Keyed connector minimises the rotation to mate the connector.
- Low insertion loss and return.
- Available in angled version.

### ► LC PATCHCORDS



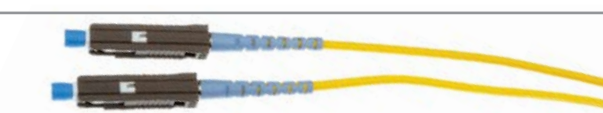
- High density applications.
- Clip together as standard.
- 1.25mm ferrule.
- Standard cable size 3mm but 1.8mm also available.
- Available in angled version.

### ► MTRJ PATCHCORDS



- Duplex connector.
- Compliant with Telcordia, TIA/EIA and IEC.
- Easy to install.
- Low insertion loss.
- Available with pins.

### ► MU PATCHCORDS



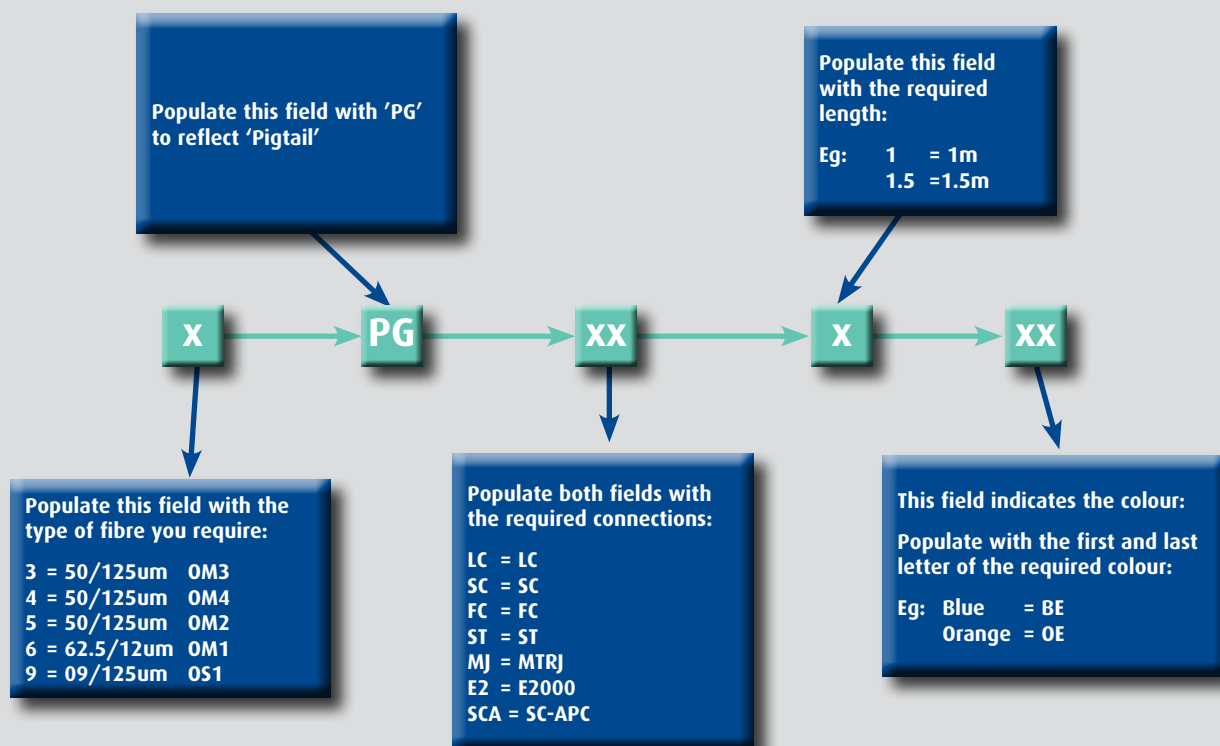
- 50% smaller than SC connector for high density applications.
- Pull proof.
- Very easy to connect and disconnect.

### ► E2000 PATCHCORDS



- Compliant with Telcordia, TIA / EIA and IEC.
- Low insertion loss.
- Low back reflection loss.
- Available in standard PC, UPC and APC.

## HOW TO CREATE OUR FIBRE OPTIC PIGTAIL PART NUMBERS



Eg: 5-PG-SC-1.5-WE = 1.5M SC 50/125UM PIGTAIL WHITE



> SC PIG



> LC PIG



> FC PIG



> ST PIG

- > Fusion or mechanically spliced on to fibre optic cable.
- > As standard terminated onto 1 metre 900um buffered fibre.
- > Available in tight jacket if additional protection required.
- > Available in semi tight buffer (easy strip).
- > Available in singlemode OM1, OM2, OM3 and OM4.
- > LC, FC, ST and SC available from stock.
- > E2000, ESCON, FDDI, MU and MTRJ available within minimal time-frame.
- > Standard colour – white.
- > Other buffer colours available upon request.
- > Individually bagged with individual test certificates.
- > Bar-coded for traceability.
- > Can be labelled and packaged to your requirements.

Part No:	Description:
<b>X-PG-ST-1-WE</b>	1m ST pigtail WHITE
<b>X-PG-SC-1-WE</b>	1m SC pigtail WHITE
<b>X-PG-FC-1-WE</b>	1m FC pigtail WHITE
<b>X-PG-FCA-1-WE</b>	1m FCA pigtail WHITE
<b>X-PG-LC-1-WE</b>	1m LC pigtail WHITE
<b>X-PG-LCA-1-WE</b>	1m LCA pigtail WHITE
<b>X-PG-MJ-1-WE</b>	1m MTRJ pigtail WHITE
<b>X-PG-SCA-1-WE</b>	1m SCA pigtail WHITE





# CONNECTORS

## SC, ST, FC AND LC CONNECTORS

**ALSO AVAILABLE  
IN PACKS OF 100**  
Remove 'I' from end of part code

networkscentre

### Features:

- Low insertion loss.
- Standard connector housing.
- Zirconia ferrule.
- Available in multimode and singlemode.
- All connectors come with a 900um and 3mm boot (LC also with a 2mm).
- All standard connectors available in angled version.

### Applications:

- Telecoms.
- FTTH (Fibre To The Home).
- CATV and CCTV.
- Local Area Networks.

### SPECIFICATION

Mode	Singlemode	Multimode
Typical Insertion loss	0.20dB	0.30dB
Humidity Cycling	75C, RH 95%	75C, RH 95%

### ➤ SC CONNECTOR



**SC MULTIMODE  
CONNECTOR**



**SC SINGLEMODE  
CONNECTOR**

- Meets the TIA/EIA-568A standards.
- Available in simplex or duplex, duplex clip available separately.
- Pre radiused ceramic ferrules.
- Ferrules can be configured for Super, Ultra, PC and APC polishing.
- One step crimp ring with jacket retention.
- One universal body suitable for 900um, 2.0mm and 3.0mm boot.
- Boot colour options available.
- Same termination tool as ST and FC.

Part No:	Description:
<b>CO-SC-MM-I</b>	SC multimode connector with a 3mm and 900um boot
<b>CO-SC-SM-I</b>	SC singlemode connector with a 3mm and 900um boot

### ➤ ST CONNECTOR



**ST MULTIMODE  
CONNECTOR**



**ST SINGLEMODE  
CONNECTOR**

- Coupling nut radial track minimises the rotation needed to mate the connector.
- One piece body construction simplifies field assembly.
- Ceramic ferrules are configured for easy hand or machine 'super' PC and 'ultra' polishing.
- Optional boot colours available.

Part No:	Description:
<b>CO-ST-MM-I</b>	ST multimode connector with a 3mm and 900um boot
<b>CO-ST-SM-I</b>	ST singlemode connector with a 3mm and 900um boot

### ➤ LC CONNECTOR



**LC MULTIMODE  
CONNECTOR**



**LC SINGLEMODE  
CONNECTOR**

- 1.25mm ferrule which is half the size of current industry standard connectors.
- Increases panel density to provide duplex connection in 50% less space.
- Available in Ultra, Super and Angle (APC) polishing.
- User friendly audible latch to indicate proper mating.
- Simplex and duplex version available.

Part No:	Description:
<b>CO-LC-MM-I</b>	LC multimode connector with a 2mm, 3mm and 900um boot
<b>CO-LC-SM-I</b>	LC singlemode connector with a 2mm, 3mm and 900um boot

## > FC CONNECTOR



**FC SINGLEMODE CONNECTOR**

- > One piece with pre-domed zirconia ferrule is designed for fast, easy assembly and polishing.
- > Meets JIS C-5970 standard.
- > Ferrule is keyed during manufacture to optimise performance.
- > One step crimp with jacket retention.
- > Corrosion resistant body.
- > Boot colour options available.

Part No:	Description:
<b>CO-FC-SM-1</b>	FC singlemode connector with a 3mm and 900um boot



## CONNECTORS

### > LIGHTCRIMP+ CONNECTOR



**ST LIGHTCRIMP+ CONNECTOR**



**SC LIGHTCRIMP+ CONNECTOR**

- > Easy and quick fibre termination (less than one minute).
- > Factory polished for consistent high quality and finish (no lapping film required).
- > No epoxy, curing or UV-light required.
- > Available in SC, ST and LC.
- > Complies with the relevant TIA/EIA, IEC, CECC and EN/IS standards.
- > Ceramic ferrule with pre-installed and pre-polished fibre.
- > Termination kit which contains all the tools required to terminate the LightCrimp Plus is available.

Part No:	Description:
<b>CO-SC-1278079-1</b>	SC 50/125um lightcrimp plus connector
<b>CO-SC-492643-1</b>	SC 62.5/125um lightcrimp plus connector
<b>CO-ST-1278082-1</b>	ST 50/125um lightcrimp plus connector
<b>CO-ST-1278082-1</b>	ST 62.5/125um lightcrimp plus connector
<b>CO-SC-1693276-1</b>	SC simplex 09/125um lightcrimp plus connector
<b>CO-SC-1693278-1</b>	SC duplex 09/125um lightcrimp plus connector
<b>CO-LC-6754483-1</b>	LC lightcrimp plus connector 62.5-125um
<b>CO-LC-6754483-4</b>	LC lightcrimp plus connector OM3

## HOTMELT CONNECTORS



**ST HOTMELT CONNECTOR**



**SC HOTMELT CONNECTOR**

**LC HOTMELTS ALSO AVAILABLE**

- > Hot Melt connectors are pre-loaded with adhesive, so there is no mixing of epoxy and no syringe required.
- > Easy termination, simply insert the connector into the oven, allow it to reach temperature while preparing the fibre end, remove the connector from the oven, fit the fibre and allow to cool before polishing.
- > Available in SC and ST.
- > Available in multimode and singlemode.
- > Compatible with other SC and ST connectors and adaptors.
- > Termination kit which contains all of the tools and consumables required to terminate the Hotmelt is available.

Part No:	Description:
<b>CO-ST-HM-MM</b>	ST multimode hotmelts
<b>CO-SC-HM-MM</b>	SC multimode hotmelts



## SC, ST, FC, LC AND MTRJ ADAPTORS

### Features:

- Low insertion loss.
- Easy to handle.
- Environmentally stable.
- Compliant with IEC, TIA.
- Hybrid adaptors available.

### Applications:

- Local Area Networks.
- FTTH (Fibre To The Home).
- CATV and CCTV.
- Telecoms.

### SPECIFICATION

Mode	Singlemode	Multimode
Typical Insertion Loss	0.20	0.30
Operating Temperature	-40 – +80C	-40 – +80C
Vibration	10 - 55 HZ (3 axis)	10 - 55 HZ (3 axis)
Durability (500 matings)	0.12dB Max	0.12dB Max

### ➤ LC ADAPTOR



**LC MULTIMODE  
DUPLEX ADAPTOR**



**LC SINGLEMODE  
DUPLEX ADAPTOR**



**LC MULTIMODE  
QUAD ADAPTOR**



**LC SINGLEMODE  
QUAD ADAPTOR**

- Increases panel density and quick plug in installation.
- Standard adaptor pushes into the panel and clips in with no need for screws.
- Duplex adaptors come as standard with SC simplex footprint.
- Quad adaptor available which fits into an SC duplex footprint.
- Standard colours: Multimode – Beige  
Singlemode – Blue  
APC – Green
- Also available in simplex.



Part No:	Description:
<b>AD-LC-DX-MM</b>	LC duplex multimode adaptor
<b>AD-LC-DX-SM</b>	LC duplex singlemode adaptor
<b>AD-LCA-DX-SM</b>	LC/APC duplex singlemode adaptor
<b>AD-LC-SX-MM</b>	LC simplex multimode adaptor
<b>AD-LC-SX-SM</b>	LC simplex singlemode adaptor
<b>AD-LCA-SX-SM</b>	LC/APC simplex singlemode adaptor

### ➤ SC ADAPTOR



**SC MULTIMODE  
DUPLEX ADAPTOR**



**SC SINGLEMODE  
DUPLEX ADAPTOR**



**SC MULTIMODE  
SIMPLEX ADAPTOR**



**SC SINGLEMODE  
SIMPLEX ADAPTOR**



**SC APC  
SIMPLEX ADAPTOR**

- Simplex and duplex panel cutouts.
- Panel clip for easy installation.
- Standard colours: Beige – Multimode, Blue – Singlemode.
- Available in several colours upon request.
- Removable duplex flanges.

Part No:	Description:
<b>AD-SC-SX-MM</b>	SC simplex multimode adaptor
<b>AD-SC-DX-MM</b>	SC duplex multimode adaptor
<b>AD-SC-SX-SM</b>	SC simplex singlemode adaptor
<b>AD-SC-DX-SM</b>	SC duplex singlemode adaptor
<b>AD-SCA-SX-SM</b>	SC/APC simplex singlemode adaptor
<b>AD-SCA-DX-SM</b>	SC/APC duplex singlemode adaptor



## ► ST ADAPTOR



**ST MULTIMODE  
ADAPTOR**



**ST SINGLEMODE  
ADAPTOR**

- D shape as standard.
- D shape threaded with nuts easily installs into patch panels.
- Meets Bellcore GR326 and TIA 568A standard.
- Zinc alloy coupling body for long life.
- Available in a plastic or metal duplex with SC duplex footprint.
- Available in a plastic or metal simplex with SC simplex footprint.

Part No:	Description:
<b>AD-ST-MM</b>	ST multimode adaptor
<b>AD-ST-SM</b>	ST singlemode adaptor
<b>AD-STA-SM</b>	ST/APC singlemode adaptor

## ► FC ADAPTOR



**FC MULTIMODE  
ADAPTOR**



**FC SINGLEMODE  
ADAPTOR**



**FC APC  
ADAPTOR**

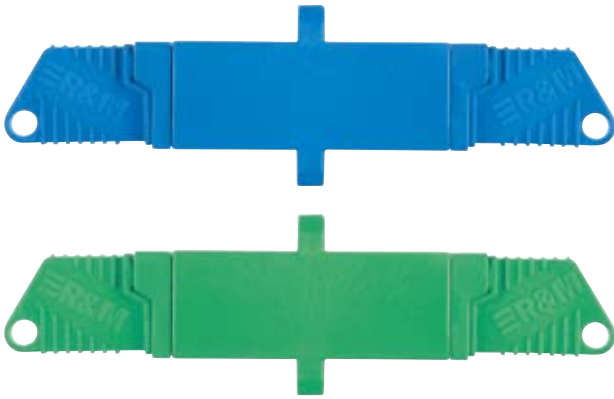
- D Shape as standard.
- D shape easily installs into patch panels.
- Available in square and rectangular mount.
- Metal body for long life and more than 1000 matings.
- Multimode – phosphor bronze and singlemode – ceramic sleeves.
- Meet JIS5970 and Bellcore GR-326 standard.

Part No:	Description:
<b>AD-FC-MM</b>	FC multimode adaptor
<b>AD-FC-SM</b>	FC singlemode adaptor
<b>AD-FCA-SM</b>	FC/APC singlemode adaptor



Can't find what you're looking for? Then contact us...

## ► E2000 ADAPTOR



### Features:

- High return Loss
- Low insertion Loss
- 100% optic test (Insertion Loss)

### Applications:

- CATV, Metro, LANs and military
- Active device termination
- Telecommunication networks

Part No:	Description:
<b>AD-E2-SM</b>	E2000 Singlemode Adaptor
<b>AD-E2A-SM</b>	E2000 APC Singlemode Adaptor

SPECIFICATION			
Fibre Type	Singlemode	Multimode	APC
Insertion Loss	≤0.2dB	≤0.2dB	≤0.2dB
Operating Temperature	-40°C to +75°C		
Durability	≤0.1 dB typical change , 500 matings		

## HYBRID ADAPTORS – ALL VARIANTS CAN BE SUPPLIED



**FC-SC SIMPLEX HYBRID MULTIMODE ADAPTOR**



**LC-SC SIMPLEX SINGLEMODE HYBRID ADAPTOR**



**SC-ST DUPLEX SINGLEMODE HYBRID ADAPTOR**



**FC-SC SIMPLEX SINGLEMODE HYBRID ADAPTOR**



**SC-ST SIMPLEX SINGLEMODE HYBRID ADAPTOR**

- Used to convert from one style of connector to another.
- Hybrid all version adaptors.
- Fit specific applications and save cost.
- Available in multimode and singlemode.
- Available in plastic and metal versions.

Part No:	Description:
<b>AD-SC-ST-SX-MM</b>	SC-ST simplex hybrid multimode adaptor
<b>AD-LC-SC-SX-SM</b>	SC-LC simplex hybrid singlemode adaptor
<b>AD-SC-ST-DX-SM</b>	ST-SC duplex hybrid singlemode adaptor
<b>AD-SC-ST-SX-SM</b>	SC to ST simplex singlemode adaptor
<b>AD-FC-ST-SX-SM</b>	FC to ST simplex singlemode adaptor
<b>AD-FC-SC-SX-SM</b>	FC to SC simplex singlemode adaptor

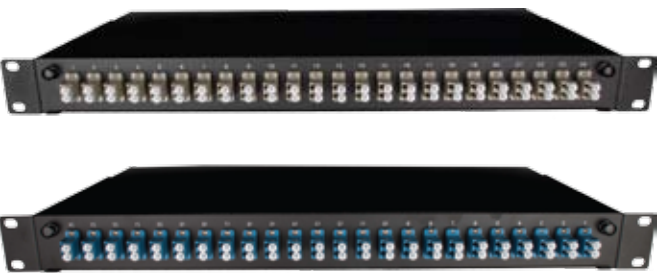
**Other Hybrid specifications are available.  
Please contact our sales team.**

# PATCH PANELS

- Available in black or beige.
- 5 variations available from stock. FC, ST, SC duplex, LC duplex and LC quad.
- 1U accept up to 24 ST, 24 FC, 12 SC Duplex, 24 LC duplex and 12 LC quad adaptors (multimode and singlemode).
- 2U accept up to 48 ST, 48 FC, 24 LC Quad and 24 SC Duplex adaptors (multimode and singlemode).
- Supplied with 4 kurly loks, panel fixing kit and a PG-11 gland.
- 3 knockouts at either side of the panel at the rear for cable entry into the back of the panel.

- Adjustable ears allowing the panel to be installed either flush or recessed.
- Screen printed for port identification.
- 1U dimensions: 205D x 435W x 43.5H (1U).
- 2U dimensions: 205D x 435W x 90H (2U).
- Knockout sizes: 4 x 20mm and 2 x 25mm for cable entry.
- 1.2mm mild steel.

## ➤ LC PATCH PANELS



**For singlemode adaptors...**  
**JUST PUT 'SM' AFTER THE NUMBER OF ADAPTORS REQUIRED!**  
 EG: PAT-24-LCD-S-04-SM-BK-SFE = 1U 19" LC patch panel loaded with 4 LC duplex singlemode adaptors.

**ALSO LC PUSH IN STYLE ADAPTORS AVAILABLE**

Part No:	Description:
<b>PAT-24-LCD-S-UL-BK-SFE</b>	1U 19" LC duplex front sliding patch panel, unloaded - black
<b>PAT-24-LCD-S-04-BK-SFE</b>	1U 19" LC duplex front sliding patch panel loaded with 4 LC duplex MM adaptors - black
<b>PAT-24-LCD-S-06-BK-SFE</b>	1U 19" LC duplex front sliding patch panel loaded with 6 LC duplex MM adaptors - black
<b>PAT-24-LCD-S-08-BK-SFE</b>	1U 19" LC duplex front sliding patch panel loaded with 8 LC duplex MM adaptors - black
<b>PAT-24-LCD-S-12-BK-SFE</b>	1U 19" LC duplex front sliding patch panel loaded with 12 LC duplex MM adaptors - black
<b>PAT-24-LCD-S-16-BK-SFE</b>	1U 19" LC duplex front sliding patch panel loaded with 16 LC duplex MM adaptors - black
<b>PAT-24-LCD-S-24-BK-SFE</b>	1U 19" LC duplex front sliding patch panel loaded with 24 LC duplex MM adaptors - black





## ► SC DUPLEX PATCH PANELS



**For singlemode adaptors...**  
**JUST PUT 'SM' AFTER THE NUMBER OF ADAPTORS REQUIRED!**  
 EG: PAT-24-SCD-S-04-SM-BK-SFE = 1U 19" SC patch panel loaded with 4 LC duplex singlemode adaptors.



Part No:	Description:
<b>PAT-12-SCD-UL-BK-SFE</b>	1U 19" SC front sliding patch panel unloaded - black
<b>PAT-12-SCD-02-BK-SFE</b>	1U 19" SC front sliding patch panel loaded with 2 SC duplex MM adaptors - black
<b>PAT-12-SCD-04-BK-SFE</b>	1U 19" SC front sliding patch panel loaded with 4 SC duplex MM adaptors - black
<b>PAT-12-SCD-06-BK-SFE</b>	1U 19" SC front sliding patch panel loaded with 6 SC duplex MM adaptors - black
<b>PAT-12-SCD-08-BK-SFE</b>	1U 19" SC front sliding patch panel loaded with 8 SC duplex MM adaptors - black
<b>PAT-12-SCD-12-BK-SFE</b>	1U 19" SC front sliding patch panel loaded with 12 SC duplex MM adaptors - black
<b>PAT-24-SCD-UL-2</b>	2U 19" 24 port SC duplex fixed patch panel unloaded
<b>PAT-24-SCD-16-2</b>	2U 19" 24 port SC duplex fixed panel loaded with 16 SC duplex MM adaptors
<b>PAT-24-SCD-18-2</b>	2U 19" 24 port SC duplex fixed patch panel loaded with 18 SC duplex MM adaptors
<b>PAT-24-SCD-24-2</b>	2U 19" 24 port SC duplex fixed patch panel loaded with 24 SC duplex MM adaptors

## ► SC SIMPLEX PATCH PANELS



**For singlemode adaptors...**  
**JUST PUT 'SM' AFTER THE NUMBER OF ADAPTORS REQUIRED!**  
 EG: PAT-24-SCS-S-04-SM-BK-SFE = 1U 19" SC simplex patch panel loaded with 4 LC duplex singlemode adaptors.

Part no:	Description:
<b>PAT-24-SCS-UL-BK-SFE</b>	1U 19" 24 way front sliding sc simplex patch panel unloaded - black
<b>PAT-24-SCS-04-BK-SFE</b>	1U 19" 24 way front sliding patch panel loaded with 04 mm SC simplex adapters- black
<b>PAT-24-SCS-06-BK-SFE</b>	1U 19" 24 way front sliding patch panel loaded with 06 mm SC simplex adapters- black
<b>PAT-24-SCS-08-BK-SFE</b>	1U 19" 24 way front sliding patch panel loaded with 08 mm SC simplex adapters- black
<b>PAT-24-SCS-12-BK-SFE</b>	1u 19" 24 way front sliding patch panel loaded with 12 mm SC simplex adapters- black
<b>PAT-24-SCS-16-BK-SFE</b>	1u 19" 24 way front sliding patch panel loaded with 16 mm SC simplex adapters- black
<b>PAT-24-SCS-24-BK-SFE</b>	1u 19" 24 way front sliding patch panel loaded with 24 mm SC simplex adapters- black

## ► FC PATCH PANELS



**For singlemode adaptors...**  
**JUST PUT 'SM' AFTER THE NUMBER OF ADAPTORS REQUIRED!**  
 EG: PAT-24-FC-S-04-SM-BK-SFE = 1U 19" FC patch panel loaded with 4 FC simplex singlemode adaptors.

Part No:	Description:
<b>PAT-24-FC-UL-BK-SFE</b>	1U 19" FC front sliding patch panel, unloaded - black
<b>PAT-24-FC-04-SM-BK-SFE</b>	1U 19" FC front sliding patch panel loaded with 4 FC SM adaptors - black
<b>PAT-24-FC-08-SM-BK-SFE</b>	1U 19" FC front sliding patch panel loaded with 12 FC SM adaptors - black
<b>PAT-24-FC-16-SM-BK-SFE</b>	1U 19" FC front sliding patch panel loaded with 16 FC SM adaptors - black
<b>PAT-24-FC-24-SM-BK-SFE</b>	1U 19" FC front sliding patch panel loaded with 24 FC SM adaptors - black
<b>PAT-48-FC-UL-2</b>	2U 19" 48 port FC fixed patch panel, unloaded
<b>PAT-48-FC-32-SM-2</b>	2U 19" 48 port FC fixed patch panel loaded with 32 FC SM adaptors
<b>PAT-48-FC-36-SM-22</b>	2U 19" 48 port FC fixed patch panel loaded with 36 FC SM adaptors
<b>PAT-48-FC-48-SM-22</b>	2U 19" 48 port FC fixed patch panel loaded with 48 FC SM adaptors



**PANELS AVAILABLE IN  
BLACK,BEIGE, SLIDING & FIXED**

## ► ST PATCH PANELS



**For singlemode adaptors...**  
**JUST PUT 'SM' AFTER THE NUMBER OF ADAPTORS REQUIRED!**  
 EG: PAT-24-ST-S-04-SM-BK-SFE = 1U 19" ST patch panel loaded with 4 ST simplex singlemode adaptors.

Part No:	Description:
<b>PAT-24-ST-UL-BK-SFE</b>	1U 19" ST front sliding patch panel unloaded - black
<b>PAT-24-ST-04-BK-SFE</b>	1U 19" ST front sliding patch panel loaded with 4 ST MM adaptors - black
<b>PAT-24-ST-08-BK-SFE</b>	1U 19" ST front sliding patch panel loaded with 8 ST MM adaptors - black
<b>PAT-24-ST-12-BK-SFE</b>	1U 19" ST front sliding patch panel loaded with 12 ST MM adaptors - black
<b>PAT-24-ST-16-BK-SFE</b>	1U 19" ST front sliding patch panel loaded with 16 ST MM adaptors - black
<b>PAT-24-ST-24-BK-SFE</b>	1U 19" ST front sliding patch panel loaded with 24 ST MM adaptors - black
<b>PAT-48-ST-UL-2</b>	2U 19" 48 port ST fixed patch panel, unloaded
<b>PAT-48-ST-32-2</b>	2U 19" 48 port ST fixed patch panel loaded with 32 ST MM adaptors
<b>PAT-48-ST-36-2</b>	2U 19" 48 port ST fixed patch panel loaded with 36 ST MM adaptors
<b>PAT-48-ST-48-2</b>	2U 19" 48 port ST fixed patch panel loaded with 48 ST MM adaptors



Can't find what you're looking for? Then contact us...

# PATCH BOXES

- Available in 4 to 16 way.
- Has a knockout on 3 of its sides to accommodate a cable gland.
- The fourth side accepts 2, 4 and 8 way SC duplex or 4, 8 and 16 ST or FC adaptors.
- The LC quad adaptor can be accommodated in the SC duplex hole.
- Can be used on a wall, desk or underfloor.
- Finished in RAL 7035 semi gloss.

- Manufactured with 1.2mm mild steel.
- Dimensions:
  - 4 way – 110mm x 110mm x 40mm
  - 8 way – 160mm x 160mm x 40mm
  - 16 way – 160mm x 160mm x 80mm
- Supplied with a PG-11 and 4 curly loks.

## ➤ ST PATCH BOXES



**For singlemode adaptors...  
JUST PUT 'SM' AT THE END OF THE PART NUMBER!**

EG: WB-08-ST-08-SM = ST wall mount patch box loaded with 8 ST SM adaptors.

Part No:	Description:
<b>WB-04-ST</b>	4 way ST wall mount patch box unloaded
<b>WB-04-ST-02</b>	4 way ST wall mount patch box loaded with 2 ST MM adaptors
<b>WB-04-ST-04</b>	4 way ST wall mount patch box loaded with 4 ST MM adaptors
<b>WB-08-ST</b>	8 way ST wall mount patch box unloaded
<b>WB-08-ST-04</b>	8 way ST wall mount patch box loaded with 4 ST MM adaptors
<b>WB-08-ST-08</b>	8 way ST wall mount patch box loaded with 8 ST MM adaptors
<b>WB-16-ST</b>	16 way ST wall mount patch box unloaded
<b>WB-16-ST-12</b>	16 way ST wall mount patch box loaded with 12 ST MM adaptors
<b>WB-16-ST-16</b>	16 way ST wall mount patch box loaded with 16 ST MM adaptors

## ➤ SC PATCH BOXES



**For singlemode adaptors...  
JUST PUT 'SM' AT THE END OF THE PART NUMBER!**

EG: WB-08-SC-08-SM = SC wall mount patch box loaded with 8 SC SM duplex adaptors.

Part No:	Description:
<b>WB-02-SCD</b>	2 way SC duplex wall mount patch box unloaded
<b>WB-02-SCD-01-SM</b>	2 way SC duplex wall mount patch box loaded with 1 SC duplex MM adaptor
<b>WB-02-SCD-02-SM</b>	2 way SC duplex wall mount patch box loaded with 2 SC duplex MM adaptors
<b>WB-04-SCD</b>	4 way SC duplex wall mount patch box unloaded
<b>WB-04-SCD-02-SM</b>	4 way SC duplex wall mount patch box loaded with 2 SC duplex MM adaptors
<b>WB-04-SCD-04-SM</b>	4 way SC duplex wall mount patch box loaded with 4 SC duplex MM adaptors
<b>WB-08-SCD</b>	8 way SC duplex wall mount patch box unloaded
<b>WB-08-SCD-06-SM</b>	8 way SC duplex wall mount patch box loaded with 6 SC duplex MM adaptors
<b>WB-08-SCD-08-SM</b>	8 way SC duplex wall mount patch box loaded with 8 SC duplex MM adaptors





## ► FC PATCH BOXES



Part No:	Description:
<b>WB-04-FC</b>	4 way FC wall mount patch box unloaded
<b>WB-04-FC-02</b>	4 way FC wall mount patch box loaded with 2 FC SM adaptors
<b>WB-04-FC-04</b>	4 way FC wall mount patch box loaded with 4 FC SM adaptors
<b>WB-08-FC</b>	8 way FC wall mount patch box unloaded
<b>WB-08-FC-04</b>	8 way FC wall mount patch box loaded with 4 FC SM adaptors
<b>WB-08-FC-08</b>	8 way FC wall mount patch box loaded with 8 FC SM adaptors
<b>WB-16-FC</b>	16 way FC wall mount patch box unloaded
<b>WB-16-FC-08</b>	16 way FC wall mount patch box loaded with 8 FC SM adaptors
<b>WB-16-FC-12</b>	16 way FC wall mount patch box loaded with 12 FC SM adaptors
<b>WB-16-FC-16</b>	16 way FC wall mount patch box loaded with 16 FC SM adaptors



**WE CAN ALSO LOAD SC BOXES  
WITH LC QUAD ADAPTORS...**  
CONTACT US FOR MORE INFORMATION

**E2000 & APC ADATORS (SC, LC, FC, ST)  
CAN BE LOADED INTO ALL OUR PANELS  
AND WALL BOXES**  
CALL FOR MORE INFORMATION



Can't find what you're looking for? Then contact us...



# DOUBLE LOCKING WALL BOXES



- Available in up to 48 way SC, 48 way ST and 96 LC.
- Lockable to prevent tampering.
- Different locks for each door.
- Manufactured with 1.2mm mild steel.
- Dimensions: 380mm x 325mm x 70mm.
- Finished in beige semi gloss.
- Enclosure is supplied with a PG-11 gland and 4 curly loks.
- Ports numbered for identification.

**For singlemode adaptors...**  
**JUST PUT 'SM' AT THE END OF THE PART NUMBER!**  
 EG: WB-DL-24-ST-02-SM = 24 way ST wall mounted double locking enclosure loaded with 2 ST MM adaptors.

## ➤ LC DOUBLE LOCKING WALL BOX

Part no:	Description:
<b>WB-DL-12-LCQ-02</b>	12 way LCQ double locking wall boxes loaded with 02 MM adaptors
<b>WB-DL-12-LCQ-04</b>	12 way LCQ double locking wall boxes loaded with 04 MM adaptors
<b>WB-DL-12-LCQ-06</b>	12 way LCQ double locking wall boxes loaded with 06 MM adaptors
<b>WB-DL-12-LCQ-08</b>	12 way LCQ double locking wall boxes loaded with 08 MM adaptors
<b>WB-DL-12-LCQ-12</b>	12 way LCQ double locking wall boxes loaded with 12 MM adaptors
<b>WB-DL-24-LCQ-24</b>	24 way LCQ double locking wall boxes loaded with 24 MM adaptors

## ➤ SC DOUBLE LOCKING WALL BOX

Part No:	Description:
<b>WB-DL-12-SCD</b>	12 way SC duplex wall mounted double locking enclosure unloaded
<b>WB-DL-12-SCD-02</b>	12 way SC duplex wall mounted double locking enclosure loaded with 2 SC duplex MM adaptors
<b>WB-DL-12-SCD-04</b>	12 way SC duplex wall mounted double locking enclosure loaded with 4 SC duplex MM adaptors
<b>WB-DL-12-SCD-06</b>	12 way SC duplex wall mounted double locking enclosure loaded with 6 SC duplex MM adaptors
<b>WB-DL-12-SCD-08</b>	12 way SC duplex wall mounted double locking enclosure loaded with 8 SC duplex MM adaptors
<b>WB-DL-12-SCD-12</b>	12 way SC duplex wall mounted double locking enclosure loaded with 12 SC duplex MM adaptors
<b>WB-DL-24-SCD-24</b>	24 way SCD double locking wall boxes loaded with 24 MM adaptors

## ➤ ST DOUBLE LOCKING WALL BOX

Part No:	Description:
<b>WB-DL-24-ST</b>	24 way ST wall mounted double locking enclosure unloaded
<b>WB-DL-24-ST-02</b>	24 way ST wall mounted double locking enclosure loaded with 2 ST MM adaptors
<b>WB-DL-24-ST-04</b>	24 way ST wall mounted double locking enclosure loaded with 4 ST MM adaptors
<b>WB-DL-24-ST-06</b>	24 way ST wall mounted double locking enclosure loaded with 6 ST MM adaptors
<b>WB-DL-24-ST-08</b>	24 way ST wall mounted double locking enclosure loaded with 8 ST MM adaptors
<b>WB-DL-24-ST-12</b>	24 way ST wall mounted double locking enclosure loaded with 12 ST MM adaptors
<b>WB-DL-24-ST-16</b>	24 way ST wall mounted double locking enclosure loaded with 16 ST MM adaptors
<b>WB-DL-24-ST-24</b>	24 way ST wall mounted double locking enclosure loaded with 24 ST MM adaptors
<b>WB-DL-48-ST-48</b>	48 way ST double locking wall boxes loaded with 24 MM adaptors

## ➤ FC DOUBLE LOCKING WALL BOX

Part No:	Description:
<b>WB-DL-24-FC</b>	24 way FC wall mounted double locking enclosure unloaded
<b>WB-DL-24-FC-02-SM</b>	24 way FC wall mounted double locking enclosure loaded with 2 FC SM adaptors
<b>WB-DL-24-FC-04-SM</b>	24 way FC wall mounted double locking enclosure loaded with 4 FC SM adaptors
<b>WB-DL-24-FC-06-SM</b>	24 way FC wall mounted double locking enclosure loaded with 6 FC SM adaptors
<b>WB-DL-24-FC-08-SM</b>	24 way FC wall mounted double locking enclosure loaded with 8 FC SM adaptors
<b>WB-DL-24-FC-12-SM</b>	24 way FC wall mounted double locking enclosure loaded with 12 FC SM adaptors
<b>WB-DL-24-FC-16-SM</b>	24 way FC wall mounted double locking enclosure loaded with 16 FC SM adaptors
<b>WB-DL-24-FC-24-SM</b>	24 way FC wall mounted double locking enclosure loaded with 24 FC SM adaptors
<b>WB-DL-48-FC-48</b>	48 way FC double locking wall boxes loaded with 24 MM adaptors



## ► SPLICE BOX



- Wide range of moulded enclosures supplied.
- Can supply with glands fitted at either end.
- IK9 impact resistance.
- Integral mounting grids and integral sealing gasket.
- Back mounting plate available.

- Compliant with IEC670.
- Hinged lid available on the larger enclosures (300 x 220 x 120 and 300 x 300 x 120).
- RAL7035 grey.
- Available in 8 different sizes.

Part No:	Description:
<b>SP-BX-10-PG11-PG7</b>	Plastic splice box supplied with x1 pg11 gland x1 pg7 gland, splice bridge and curly loks 100x100x60mm
<b>SP-BX-24-PG11</b>	Plastic splice box supplied with x2 pg11 glands, splice bridge and curly loks 240x190x90mm
<b>SP-BX-48-PG11</b>	Large plastic splice box supplied with x4 pg11 glands, 2x splice bridge and curly loks 380x300x120mm

**This box can be customised to suit your requirements. Contact us to discuss further.**

## ► PLASTIC EXTERNAL ENCLOSURE



Glass fibre reinforced polyester. IK10 impact resistant. Standard grey, RAL 7032 colour, Approval - UL50. Includes galvanised steel chassis plate and built-in door hood. Reversible door. Stable to ultra violet rays. Corrosion resistant. Self extinguishing. Max working temp range -50°C to 150°C. IP66 rating. Manufactured to EN 60439-1/IEC 439-1.

### Features:

- RAL 7032 Grey.
- Reversible Door.
- IP66.
- IK10.
- Complies with the RoHS Directive.

Part No:	Description:
<b>NC-SAR-P-310X436X250</b>	310x436x250 Plastic external IP rated Enclosure
<b>NC-SAR-P-430X330X200</b>	430x330x200 Plastic external IP rated Enclosure
<b>NC-SAR-P-530X430X200</b>	530x430x200 Plastic external IP rated Enclosure
<b>NC-SAR-P-647X436X250</b>	647x436x250 Plastic external IP rated Enclosure
<b>NC-SAR-P-757X536X300</b>	757x536x300 Plastic external IP rated Enclosure
<b>NC-SAR-P-847X636X300</b>	847x636x300 Plastic external IP rated Enclosure

## ► SHEET STEEL EXTERNAL ENCLOSURE



Manufactured from a continuous length of 1.2mm sheet steel. Standard grey, RAL 7032 colour - 60microns thick. Polyurethane gasket and rain gutter. Perforated door reinforcement allows for the fixing of extra equipment. Reversible door. Double bar door lock. Includes galvanised steel chassis plate. Earth continuity studs. IP66 rating.

### Features:

- RAL 7035.
- IP66.
- Reversible Door.
- Double Bar Door Lock.
- Complies with the RoHS Directive.

Part No:	Description:
<b>NC-SAR-S-300X250X150</b>	300x250x150 Steel external IP rated Enclosure
<b>NC-SAR-S-400X400X200</b>	400x400x200 Steel external IP rated Enclosure
<b>NC-SAR-S-500X600X250</b>	500x600x250 Steel external IP rated Enclosure
<b>NC-SAR-S-500X500X250</b>	500x500x250 Steel external IP rated Enclosure
<b>NC-SAR-S-600X600X250</b>	600x600x250 Steel external IP rated Enclosure
<b>NC-SAR-S-800X600X300</b>	800x600x300 Steel external IP rated Enclosure



# EXTERNAL FIBRE OPTIC SPLICE ENCLOSURES

## ► FOSC



**Tyco Electronics**



### SPLICES FIBRE STORAGE CAPACITY

Closure	Single Fusion	Single Mechanical	Mass Fusion
FOSC 400 A4	72	24	24
FOSC 400 B2, B4	144	48	288
FOSC 400 D5	768	288	1152

- Suitable for use in any environment: aerial, pedestal, buried and manhole.
- Proven fibre management hardware.
- Base to dome seals on FOSC 400 are mechanical for ease of installation and re-entry.
- Cable seals feature a heat shrink sleeve and hot melt adhesive system that is installed with a hot air gun.
- Common materials, accessories and practices are used throughout the product line to simplify use, reduce inventory and enhance productivity.
- FOSC's are synonymous in excellence in sealing, fibre management, ease of use and design flexibility.
- FOSC 400 fibre optic splice enclosures are available in 3 sizes:
  - FOSC 400A
  - FOSC 400B
  - FOSC 400D
- All sizes are designed for use with any cable construction.

Part No:	Description:
<b>FOSC-400A4-S24-1-NNN</b>	FOSC closure with A4 base, includes 1 x 24 splice tray
<b>FOSC-400B4-S24-1-NNN</b>	FOSC closure with B4 base, includes 1 x 24 splice tray
<b>FOSC-A-TRAY-S24</b>	24 splice tray for A4 closures
<b>FOSC-B-TRAY-S24</b>	24 splice tray for B4 closures

**OTHER FOSC PRODUCTS & ACCESSORIES AVAILABLE**  
Please call for more information

### FOSC 400 A4

- Smallest in the 400 series.
- Intended for low core count cables.
- Comes ready to store expressed loose buffer tubes.

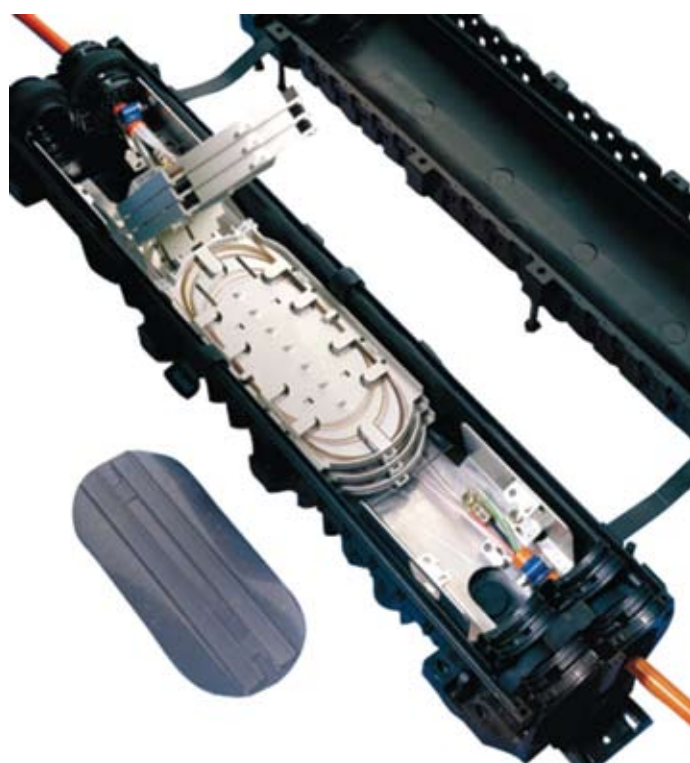
### FOSC 400 D5

- Largest in the 400 series.
- Can terminate up to 7 cables (or up to 12 cables with the use of branch off clips), through 1 oval port and 5 large round ports.
- Splice capacity is: 768 single fusion, 1152 mass fusion (12) fibres or 288 single mechanical.

### FOSC 400 B2 / B4

- B2 has two large round ports for branch cable splices while the B4 closure has four small round ports for multiple drop applications.
- Cable sealing system provides a great deal of flexibility.

## ► TYCO IN-LINE SPLICE ENCLOSURE



**Tyco Electronics**

- Environmentally sealed in-line enclosure for emergency repairs, in-line, and aerial cable joints.
- Includes 1 splice tray for 24 splices.
- A further 5 additional splice trays can be ordered separately to increase capacity to 144 splices max.
- 6 cable ports (2 one side, 4 the other). 7-40mm cable dia.
- Cable ports sealed by cold wrap around gel tape. No heatshrink required.
- Includes sealing kits for two cables and plugs for unused ports.
- Further sealing kits can be ordered separately.
- Enclosure lid secured by screws.

Part No:	Description:
<b>FOSC-500B-S24-1-INN</b>	In-line FOSC enclosure including 1 x 24 fibre tray
<b>FOSC-500B-TRAY-S24-1</b>	In-line FOSC 24 fibre tray

- Environmentally sealed in-line enclosure for emergency repairs, in-line, and aerial cable joints.
- 1 splice tray for a maximum of 24 splices.
- 2 cable ports at each end of the enclosure (5-15mm cable dia).
- Cable ports sealed by integral gel seal mechanism. No heatshrink required.
- Gel seal mechanism actuated by turning two knobs on the outside of the enclosure.
- Gel seal allows repeated enclosure and re-entry. Does not leak or run.
- Hinged lid secured by 7 latches.

Part No:	Description:
<b>FOSC-500AA-S24-LT-NN</b>	In-line FOSC splice closure for up to 24 fibres

## ► CHANNELL DOME CLOSURE



**CHANNELL**

Channell Commercial Corporation manufactures a full range of fibre optic closures for voice, data and broadband requirements. To accommodate the ever increasing use of fibre optics throughout worldwide communication networks, Channell's complete family of network distribution fibre optic splice cases delivers the key advantages of:

- Simple, robust design
- Modular, upgradable configurations
- Fully environmentally sealed
- High volume, low cost production.

Part No:	Description:
<b>FOSC-140002</b>	Heatshrink dome enclosure kit 24 fibre 2 x 12 way splice trays 1 oval and 4 round port (small)
<b>FOSC-150001</b>	Heatshrink dome enclosure kit 24 fibre 2 x 12 way splice trays 1 oval and 5 round port
<b>FOSC-150002</b>	Heatshrink dome enclosure kit 36 fibre 3 x 12 way splice trays 1 oval and 5 round port
<b>FOSC-18011</b>	12 way splice tray for Channell FOSC enclosures



Can't find what you're looking for? Then contact us...



## ► CHANNELL IN-LINE SPLICE ENCLOSURE



- IP68 rated in-line splice enclosure for up to 24 or 48 fibres.
- Two cable entry ports at each end of the enclosure (no-heatshrink required).
- Suits 10-32mm cable diameter cables (24 fibre version) or 4-26mm cables (48 fibre version).
- Re-enterable design. Lid secured by bolts.
- Dimensions 350x155x70mm (24 fibre version) 450x85x85mm (48 fibre version).
- Includes 2 or 4 12-fibre splice trays (24 or 48 fibre versions).

Part No:	Description:
<b>FOSC-140034</b>	24 fibre in-line splice enclosure
<b>FOSC-140035</b>	48 fibre in-line splice enclosure

## ► PIVOTING OPTICAL SUB RACKS (POSR'S)

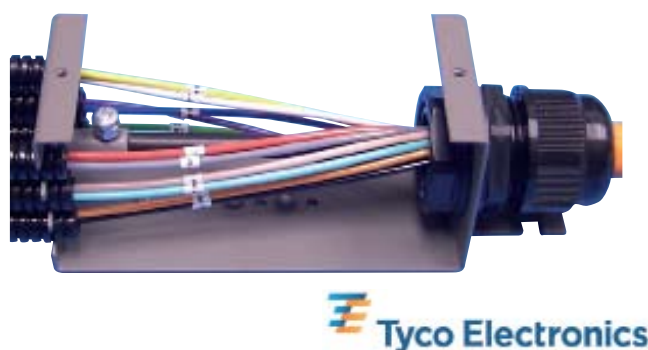


- Unique design, flexibility of configuration and pivoting drawer option.
- Pivoting drawer design allows easy access to reduce installation and maintenance time which can be undertaken without the need to remove the chassis from the rack.

- Sub racks can be configured with a metal fibre management guide system for routing of patching cable assemblies away from the chassis to the raceway systems within optical distribution frames.
- Powder coated for durable finish.
- Supplied as a comprehensive kit including all relevant installation and splicing materials and cable unit breakouts (where applicable).
- CUB's can be mounted at the side of the rack or directly on the back of the POSR chassis.
- Available in chassis heights of 1U through to 7U
- Available to suit ST and FC's for splicing and patching configurations only (16 fibres per drawer).
- Available to suit ST, SC, FC, E2000's for splicing and patching configurations only (24 fibres per drawer).
- Available to suit LC (Quad) for splicing and patching configurations only (36 fibres per drawer).
- LC (Quad) also available for patching configurations only (48 fibres per drawer).
- Supplied loaded or unloaded to any required installation configuration.

**Due to the different variations available for this product, we do not publish part numbers.**  
Please contact our sales team to discuss your requirements.

## ► CABLE UNIT BREAKOUTS (CUB)



- CUB's are manufactured from zinc and powder coated to a light grey colour.
- Open base layout provides good visibility of the cable unit tubes / fibres to ensure no attenuation is introduced during installation through twisting, bending or kinking of the fibres.
- Fibre cable is anchored to the CUB base using a tough nylon compound manufactured cable gland which provides a watertight seal around the sheath.

- Flexible conduit used with the CUB's is available in 3 types: bend limiting tubing (which is a white polypropylene tube - 5.0mm with a 3.1mm smooth bore), PG7 flexible conduit or PG9 flexible conduit. Limits possible bending within fibres by maintaining a bend radius.
- Cable unit tubes, groups or individual fibres are routed away from the CUB enclosed in a protective flexible conduit. CUB's are available in various versions depending on the fibre count of the cable, the cable diameter and the type of flexible conduit required. Number of conduit ports is determined by the cable fibre count.
- BLT is ideally suitable for use with loose tube construction fibre cable typically of 8 or 12 fibres per tube construction. Will also accept 8 tight-buffered 900µm fibres. PG7 flexible conduit is a black polyamide (nylon 6) corrugated tube nominal Ø10.0mm with a nominal Ø6.5mm bore. PG7 offers the correct balance between mechanical strength and flexibility. PG7 conduit is suitable for both loose tube and tight buffer constructed cables. It is possible to fit 3x8 fibre unit tubes per conduit or 24 x 900µm tight buffered fibres.
- PG9 flexible conduit is also a black polyamide (nylon 6) corrugated tube nominal Ø13.0 with a nominal Ø9.6mm bore.
- Each CUB is supplied in kit form comprising; CUB base, CUB lid, cable gland, flexible conduit (typically 1m per port), cable ties, number strip labels and cabinet mounting bracket.

# FUSION SPLICERS

## > T-71C CORE ALIGNING SPLICER

PART NO: SUM-T-71C



The new T-71C core alignment fusion splicer from Sumitomo offers many new key features. It is smaller, lighter, faster and more durable than its predecessor weighing in at just 2.1kgs with the battery in place and a footprint of just 120 x 154 x 130mm. Battery life is in excess of 200 cycles with a 7 second splice time and an incredible 28 second heat shrink cycle for a 60mm sleeve. With Sumitomo's characteristic dual oven technology, engineer output can be vastly increased. Supplied as standard in a lightweight and rugged carrying case which has a flat surface for the splicer to sit on and a convenient fold out work platform for the cleaver and other tools.

The T-71C benefits from a touch screen display and can show a x700 image of the fibres. Instructional help videos are built in to the splicer's memory for greater ease of use. The wind hood is now mirror free and uses LED's in order to reduce maintenance issues. It can be supplied with coating clamps for primary coated fibre, tight buffered fibre or loose buffer fibre as standard or you can specify removable fibre holders, both of which will allow a very short cleave length of just 5mm providing a very strong splice.

The splicer operates efficiently in extreme weather conditions, capably splicing in temperatures of 50 degrees C, working at altitudes of 6000m and with IPx2 water protection and IP5x dust protection works well outdoors. It can also survive a drop of 76cm on 5 faces!

- > Smaller, lighter and faster than the T39.
- > Full touch screen control.
- > SD card reader.
- > Dual ovens, with flexible clamps.
- > View, zoom and save splice mode.
- > Built-in video help and media player.
- > Online software updates.
- > Battery available see page 34.

### Kit:

#### SUM-T-71C-KIT-STD1

- > T-71C splicer unit.
- > Power supply module.
- > Hand strap.
- > Operation CD.
- > Hard carrying case.
- > Power cord.
- > Splice cooling tray.
- > Electrodes.
- > Quick Guide.

## > T-25E HAND HELD MICRO SPLICER

PART NO: SUM-T25



### Features:

- > Battery charges inside the T-25e.
- > White LED lights fibre loading.
- > No mirrors for less maintenance.

### Specifications:

- > Silica glass material.
- > Profile: SMF, MMF, DSF, NZDSF and others.
- > Mean loss: SMF - 0.05dB, MMF - 0.03dB, DSF - 0.08dB.
- > Fibre Diameter: 125um.

- > Splice time: 11s.
- > Heat shrink time: <40s for 45mm sleeve, <50s for 60mm sleeve.
- > Programmes: 15 splice, 15 heat shrink oven.
- > Data storage: 1500 splices.
- > Operating conditions: -10°C - 50°C, non-condensing humidity, ≤3600m and max wind speed 15m/s.
- > Storage conditions: -40°C to 70°C, <95% non-condensing humidity.
- > Dimensions: 120(w) x 145(d) x 160(h)mm, 2.5" LCD, 1.35kg excluding BU-25 battery.
- > Battery: BU-25 2 Amp.hour Li-ion, approx 60 splice and heat shrink cycles at 25°C.

### Kits:

#### SUM-T25EM

- > Ribbon - 10mm.
- > Single fibre, primary coated - 10mm.
- > Single fibre, tight secondary coated - 10mm.

#### SUM-T25ES-LC

- > Single fibre, primary coated 10mm.
- > Single fibre, tight secondary coated - 20mm from secondary, 10mm from primary.
- > Single fibre, loose secondary coated - 20mm from secondary, 10mm from primary.

#### SUM-T25ES

- > Single fibre, primary coated - 10mm.
- > Single fibre, tight secondary coated - 10mm.



## ➤ FC-6 SERIES FIBRE CLEAVER

PART NO: SUM-FC6



### Features:

- Easy handling and light weight.
- Automatic off-cut collection on "C" type.
- Quick and easy to use.
- Field replaceable blade.
- Large collector for fibre sharps ensures safe operation.
- Auto rotating blade.

## ➤ FC-7 SERIES FIBRE CLEAVER

PART NO: SUM-FC7



### Features:

- Easy handling and light weight.
- Single handed cleave operation.
- Simple to use: load the fibre, squeeze the cleaver closed. Cleave and off-cut collection are automatic.
- Ergonomic design that fits comfortably in the palm of your hand.
- Built in collector for fibre sharps ensures safe operation.

### TECHNICAL SPECIFICATION

Fibre types	125um SMF, MMF and others
Fibre number	S type – single fibre, M type – ribbon fibre, up to 12 core
Coating types	250um primary coated, 900um secondary coated
Cleave length – S type	9 – 16mm (250um fibre), 10 – 16mm (900um fibre)
Cleave length – M type	10mm with fibre in Sumitomo holder
Cleave angle, typical	0.5°
Dimensions	63/100(w) x 76/81(d) x 63/63(h)mm – Std/C version
Weight	430/480g – Std/C version
Blade life – using 12 rotational positions on the blade edge at 3	36,000 cleaves – more cleaves are possible if the blade is rotated <30° between edge positions step heights / position

### FC-6 Family

**FC-6S and FC-6S-C:** Single fibre use only. "C" version has fibre off-cut collector.

**FC-6M-C:** Ribbon fibre and single fibres in fibre holders. Has fibre off-cut collector.

**SUM-FC-6R-S-C:** Sumitomo FC-6R-S-C cleaver with automatic rotating blade and off cut collector

### FC-6 Accessories and Consumables

**CU-FC6:** Fibre off-cut collector

**FCP-20BL:** Blade

**AP-FC6M:** Adaptor

### TECHNICAL SPECIFICATION

Fibre types	125um, SMF, MMF and others
Fibre number	Single fibre only
Coating types	250um primary coated, 900um secondary coated
Cleave length – 250um primary coated fibre	6 – 20mm
Cleave length – 900um secondary coated fibre	10 – 20mm
Can be used with Sumitomo fibre holders	No – use FC-7M if cleaving in fibre
Dimensions	98(w) x 58(d) x 47(h)mm
Weight	300g
Blade life – using 12 rotational positions on the blade edge at 3 step heights / position	36,000 cleaves – more cleaves are possible if the blade is rotated <30° between edge positions

### FC-7 Family

**FC-7S:** Single fibre use only

**FC-7M:** Ribbon fibre and single fibres in fibre holders

### FC-7 Accessories and Consumables

**TR-FC-7:** Off cut collector for FC-7 family of cleavers

**FCP-20BL:** Blade for FCP, FC-6 and FC-7 type cleavers

Blade has 12 marked edge positions separated by 30°, but maybe used on edge positions separated by <30° to achieve >36000 cleave blade life.

## ► DC POWER CORD



Enables the T-71C to be powered from a standard 12v vehicle power supply.

Part No:	Description:
<b>SUM-PC-V11</b>	DC power cord for vehicle 12V outlet

## ► POWER CORD



Replacement power cord for the T-71C.

Part No:	Description:
<b>SUM-PC-AC3</b>	Power Cord

## ► LI-ION BATTERY



Rechargeable Lithium Ion battery.

Part No:	Description:
<b>SUM-BU-11</b>	Li-ion battery for T-71C
<b>SUM-BU-25</b>	Li-ion battery for T-25e
<b>SUM-BU-66L</b>	Nimh 9amp high capacity rechargeable battery for T-39
<b>SUM-BU-66S</b>	Nimh 4.5amp standard rechargeable battery for T-39

## ► AC/DC ADAPTOR



Replacement power adaptor.

Part No:	Description:
<b>SUM-ADC-1430</b>	AC/DC adaptor power supply module 4071C
<b>SUM-ADC-1240M</b>	AC/DC adaptor 12v DC out, for use with type 25e
<b>SUM-ADC-1635</b>	AC/DC adaptor 16v DC out, for use with charger for T-39

## ► ELECTRODES



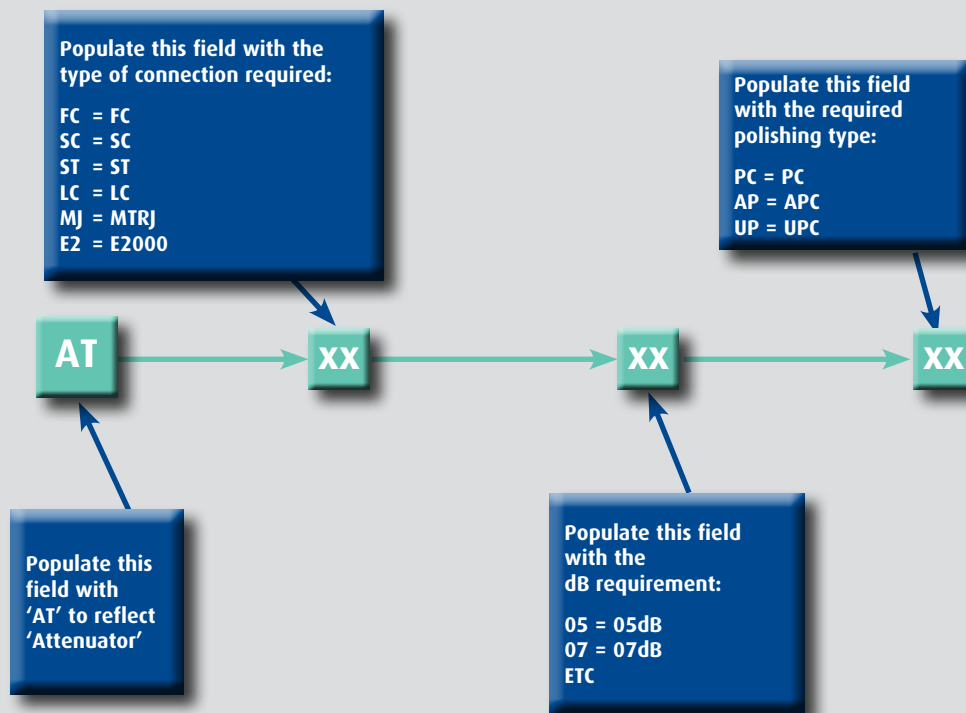
Replacement electrodes for the T-71C, T-39 and T-25e.

Part No:	Description:
<b>SUM-ER10</b>	Pair of electrodes for T-39, T-25e and T-71 fusion splicer ER10's (orange caps)
<b>SUM-ER6</b>	Pair of electrodes for type 36 fusion splicer ER6's (white caps)





## HOW TO CREATE OUR ATTENUATOR PART NUMBERS



Eg: AT-FC-02-AP = 2dB FC/APC ATTENUATOR

### ➤ FIXED ATTENUATORS



#### Features:

- Metal-ion doped fibre (continuous).
- Simple and reliable structure.
- Durability (over 200 mW) (EDFA).
- Low PDL (<0.1dB).
- Low polarisation dependence.
- Bellcore compliant (GR-910-CORE).
- Available in SC / LC / FC / ST as standard, however other connection options are available upon request.

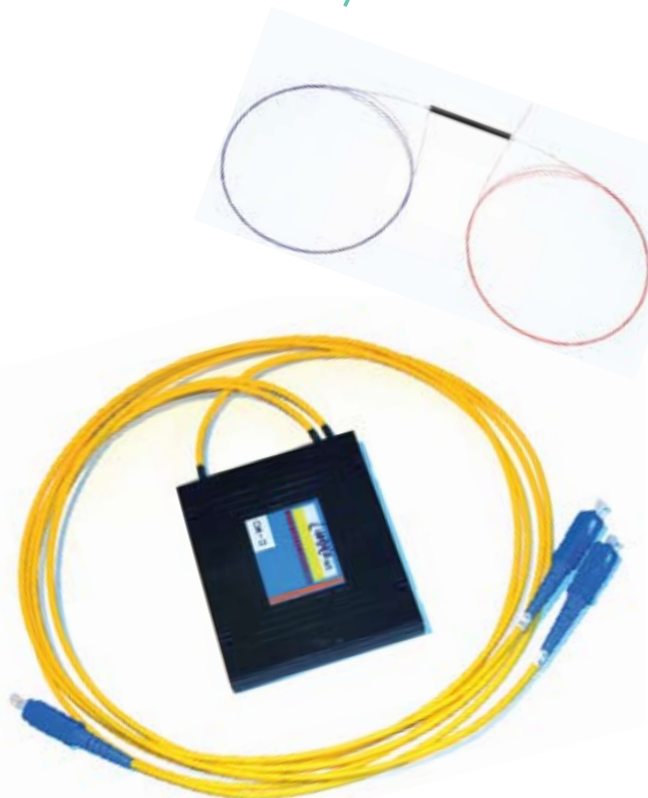
#### Application:

- CATV and LAN.
- Telecom Networks.
- Data Networks.
- Passive Optical Networks.

#### SPECIFICATIONS

Wavelength	1310nm and 1550nm
	1-10dB <+/- 1.0dB (typical) standard
	11-25dB <+/- 10% (typical) standard
Attenuation Tolerance	1-10dB <+/- 0.5dB (typical) premium
	11-25dB <+/- 5% (typical) premium
Return Loss	RL= -50dB (UPC) RL= -60dB (APC)
PDL	<0.1dB
Operating Temperature	-40oC > + 75oC
Storage Temperature	-40oC > + 75oC





## Features:

- InGaAsP/InP MQW DFB Laser.
- Lower operation current.
- InGaAs PD and Isolator inside.
- High Reliability and output power.
- Coaxial Package.
- Available in SC / LC / FC / ST as standard, however other connection options are available upon request.
- Polishing types such as: PC / UPC and APC are all available upon request.

## Applications:

- Fibre optic systems/equipment.
- CATV networks.
- Data communications.
- Passive optical networks (ATM, WDM and Ethernet).
- For dividing optical signals from input ports to multiple outputs.
- Optional reverse direction to convert multiple wavelengths into a single fibre.

### PARAMETER SPECIFICATIONS (TC=250C)

PARAMETER	1x4	1x8	10x16	10x32	Unit
Operating Wavelength		1.26 > 1.64		16.8	Um
Insertion Loss (Typ.)	7	10.3	13.8	18	dB
Insertion Loss (Max.)	7.5	11	14.5	20	dB
Uniformity	0.8	1	1.7		dB
PDL	-0.1	-0.15	-0.3		dB
Return Loss			-55		dB
Directivity			-55		dB
Operating Temperature			-40oC > + 85oC		oC
Storage Temperature			-40oC > + 85oC		oC
Packaging Dimensions (LxWxH)	40x4x4	40x4x4	60x4x7	60x4x7	mm

## ➤ MODE CONDITIONING PATCHCORD



## Features:

- Stable, permanent core offset.
- Low loss connections.
- Removes effects from DMD.
- Compliant with IEEE 802.3z (GbE).

## Description:

- Designed for longwave (1310nm) Gigabit Ethernet applications over multimode fibre.
- Offset connection of a Singlemode fibre to a Multimode fibre.
- Two MM fibres on one end and one MM and one SM on the other end.
- When launching into a MM fibre, the transceivers can generate multiple signals that cause Differential Mode Delay (DMD) which can limit transmission distances. A mode conditioning patchcord removes these multiple signals eliminating problems at the receiver end.

### TECHNICAL SPECIFICATION

Fibre Type	Multimode and Singlemode
Maximum Insertion Loss	0.4dB
Operating Temperature	-40o C - +85o C



## ► BLANKING PLUGS



- Used to fill unused ports in patch panels or wall boxes.
- Available in SC duplex, ST, LC and SC simplex.
- Colour – black.

Part No:	Description:
<b>BP-SCD</b>	SC duplex black blanking plug
<b>BP-LCD</b>	LC duplex black blanking plug
<b>BP-SCS</b>	SC/LC (SC simplex footprint) simplex black blanking plug
<b>BP-ST</b>	ST simplex black blanking plug

## ► CABLE GLANDS



- Compression glands provide strain relief for the cable as it enters the enclosure.
- Includes neoprene seal and locknut.
- Protection rating – IP68.

- Polyamide material.
- Colour – black or grey.
- Operating range -30°C to +80°C.
- Available with a bend limiting back end to control bend radius of the cable.
- Available from stock in 4 sizes.

Part No:	Description:
<b>PG-7</b>	2.5mm-6.5mm cable gland PG-7 grey
<b>PG-11</b>	4.0mm-10mm cable gland PG-11 grey
<b>PG-11-BK</b>	4.0mm-10mm cable gland PG-11 black
<b>PG-11-GY-SR</b>	4.0mm-10mm cable gland PG-11 grey with strain relief
<b>PG-13.5-BK</b>	6.0mm-12mm cable gland PG13.5 black
<b>PG-13.5-GY</b>	6.0mm-12mm cable gland PG13.5 grey

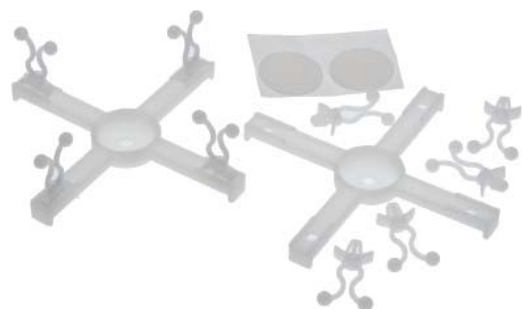
## ► SELF ADHESIVE CABLE CLIPS



- Used to secure cable or fibre in patch panels or wall mounted enclosures.
- Fibre retained and removed easily in clips by twisting the ears.
- Natural colour.
- Adhesive Base.
- Available from stock in two sizes (other sizes available upon request)
  - KLB-350-01-ART: Bundle Size – 9mm, Height – 27mm
  - KLB-450-01-ART: Bundle Size – 11mm, Height – 31mm

Part No:	Description:
<b>KLB-350-01-AR-T</b>	Kurly loks (height 35mm)
<b>KLB-450-01-AR-T</b>	Kurly loks (height 45mm)

## ► CABLE CLIP BASES



- Constructs a path for spooling fibre optic cables.
- Can be used in patch panels or wall mounted enclosures.
- Self adhesive or screw mountable.

- Twist lock easily inserted and removed.
- Base supports a large variety of cable clips.
- Accepts bundles up to 15.2mm.
- Natural Colour.

Part No:	Description:
<b>OFSB-4-85-01-A</b>	4 way adhesive cable clip base
<b>OFSB-4-85-01</b>	4 way screw in cable clip base
<b>STL-J-250-4M-01</b>	Twist lock clip for 5.1mm – 7.6mm bundle
<b>STL-J-350-4M-01</b>	Twist lock clip for 7.6mm – 10.2mm bundle
<b>STL-J-450-4M-01</b>	Twist lock clip for 10.2mm – 12.7 mm bundle
<b>STL-J-600-4M-01</b>	Twist lock clip for 12.7mm – 15.2mm bundle

## ► 4 WAY SPLICE BRIDGE



- Holds up to four fibres.
- Comes with adhesive tab or can be screw rivet mounted.
- For use in a fibre optic patch panel or a wall mounted patch box.

Part No:	Description:
<b>SB-4</b>	4 way splice bridge

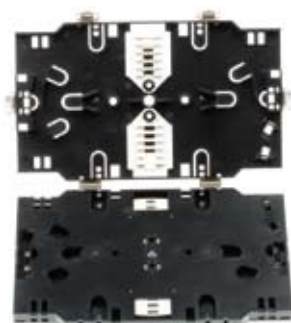
## ► 24 WAY SPLICE BRIDGE



- Stores up to 24 fusion splice protectors.
- Available with a lid.
- Self adhesive or screw fixed.
- For use in patch panels and wall mounted enclosures.
- Available in blue or grey.

Part No:	Description:
<b>SB-24-B</b>	24 way splice bridge blue w-adhesive base
<b>SB-24-L</b>	12-24 way splice bridge with lid

## ► SPLICE CASSETTES



- For up to 12 fusion splice protectors.
- Stackable.
- Manages and stores excess fibres.
- For use in patch panels or wall mounted enclosures.
- Self adhesive or screw mountable.

Part No:	Description:
<b>SPC-PX2SP-PL</b>	Plastic splice cassette inc x2 splice holders for 6 splice protectors with plastic lid

## ► SPLICE PROTECTORS



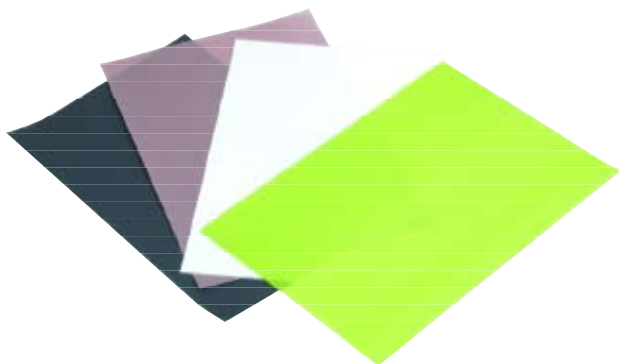
- Designed to restore complete environmental and mechanical integrity of coating or buffer of optical fibre after splicing.
- Hot melt adhesive tube bonds both to the fibre and heat shrinkable tube to effectively encapsulate fusion splice.
- Resistant to heat shocks.
- Sleeves are pre-shrunk which ensures integrity of assembly during transportation.
- Clear colour.
- Other colours available upon request.
- Available in 61mm or 45mm.

Part No:	Description:
<b>SP-45-CR</b>	45mm splice protectors (clear)
<b>SP-60-CR</b>	60mm splice protectors (clear)





## ► LAPPING FILM



- Used to polish fibre optic connectors.
- Aluminium Oxide sheets available from stock in 9 different grades.
- Diamond sheets available upon request.
- Available in disc or sheet form.
- Available with adhesive back.

Part No:	Description:
9 X 13 - X - A	9 x 13" Aluminium Oxide Lapping Film
6 X 9 - X - D	6 x 9" Diamond Coated Lapping Film

**X** – Insert Micron Between (0.3 to 30 micron)

E.g. 9X13-0.3-A = 9 x 13" 0.3 Micron Aluminium Oxide Lapping Film

## ► COLD CURE EPOXY



- High Strength anaerobic retaining adhesive.
- 50ml bottle can terminate up to 500 connectors.
- Fast curing with no need for power.
- Activator available in spray form or fluid.

Part No:	Description:
LOC-7649-500	500ml activator for use with LOC638 (liquid)
LOC7649-150	150ml activator for use with LOC638 (spray)
LOC638-50	50ml cold cure anaerobic adhesive

## ► HEAT CURE EPOXY



- High temperature epoxy adhesive.
- Comes in 5 x 4g twin pack sachets as standard.
- Two component, low viscosity, heat curing epoxy designed for high temperature applications.
- Mix ratio – 8 : 1 resin to hardener.
- Available in twin packs or bulk.
- Pot life – 4 hours at 23°C (4g mixed).
- Twin pack is a clear film sachet with the resin and hardener separated by a removable clip and rail divider.
- To mix the adhesive, remove the divider and mix the two parts together within the sachet which takes approximately 1-2 minutes.

Part No:	Description:
OT-5053-F-4G	High temperature epoxy adhesives (5 x 4g twin pack sachets)

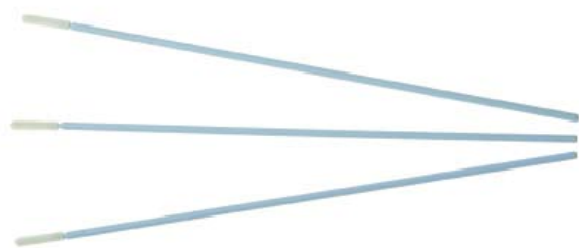
## ► NEEDLE & SYRINGE



- Used to load connectors with epoxy.
- Needle and syringe screw together to ensure that neither part during use.
- Epoxy is delivered to the rear of the ferrule without trapping air bubbles.
- Suitable for directly loading from epoxy bi-packs.
- 0.9mm needle.
- 3cc syringe body.

Part No:	Description:
NS3CC	Needle and syringe

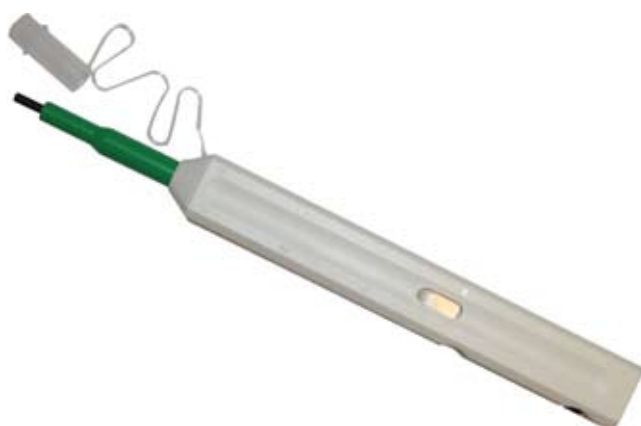
## ► SWABS



- Used for cleaning connector ferrule end faces, adaptors and difficult areas.
- Available in 1.25mm and 2.5mm.
- Supplied in packs of 50.

Part No:	Description:
<b>SWAB-1.25</b>	1.25mm cleaning swabs (pack of 50)
<b>SWAB-2.5</b>	2.5mm cleaning swabs (pack of 50)

## ► ONE CLICK FERRULE CLEANER



- Easy pushing motion engages connector and initiates cleaner.
- Minimum of 800 cleans
- Made from anti static resin
- Cleaning micro fibres are densely stranded and debris free.
- Extendable tip allows access to hard to reach recessed connectors.
- Cleaning system rotates 180 degrees for optimum cleaning.
- Audible click to inform when engaged.
- Compliant with EU/95/2002/EC Directive (RoHS).
- Effective with a variety of contaminants.

Part No:	Description:
<b>OCC-A</b>	2.5mm one click ferrule cleaner for SC-FC-ST connectors
<b>OCC-B</b>	1.25mm one click ferrule cleaner for LC-MU connectors
<b>MPO-CLK-C</b>	MPO connector cleaning tool

## ► HAND HELD CLEANING CASSETTE



- Great alternative to alcohol or other cleaning solutions.
- Offers lint-free, clean room grade cleaning media which effectively removes dirt, dust, oil, grease and debris from connector end faces.
- Resilient rubber pad beneath the cleaning surface prevents scratching.
- Sliding cover protects the cleaning media from contamination when not in use.
- Reel refills available.
- Very competitively priced.

Part No:	Description:
<b>CC-POUCH</b>	Pouch for fibre optic cleaning cassette
<b>CC-CASS</b>	Clean core fibre optic cleaning cassette and tape

## ► LOCKING FLUID DISPENSER



- 50cc fluid dispenser is suitable for dispensing IPA.
- Pump action dispenses fluid into the reservoir on the lid and stops fluid from re-entering the bottle.
- Hinge lid reduces odours.
- Bayonet lock secures fluid in transit.
- Allows easy view of fluid.

Part No:	Description:
<b>35701</b>	Locking fluid dispenser



## ► FLUKE NETWORKS CLEANING KIT



KIT BOX



CARDS



SOLVENT PEN



CUBE



1.25MM SWABS



2.5MM SWABS



CASE

- Prevent the #1 cause of fibre link failure: end-face contamination. Everything needed for precision cleaning of end-faces on both patchcords and inside ports.
- Specially formulated solvent dissolves contaminants, neutralizes static charge and encapsulates particles for removal.
- A range of wipers and swabs enable cleaning of all styles of fibre optic connections.
- By fitting in your pocket, fibre optic cleaning cards are conveniently perfect for troubleshooting.
- Use the convenient and rugged carrying case to store all of the cleaning components.

### Kit includes:

- Cleaning cube with wipes.
- Ten cards with sealed cleaning zones.
- Solvent pen.
- 2.5mm port cleaning swabs and 1.25mm port cleaning swabs.
- Rugged carrying case.

Part No:	Description:
<b>NFC-KIT-CASE</b>	Fibre cleaning kit with cube pen 1.25+2.5mm swabs 10 cards and case

## CLEANING KIT REPLACEMENT PARTS

Part No:	Description:
<b>NFC-KIT-BOX</b>	Fibre cleaning supplies box with cube, fluid pen, 2.5mm swabs and 5 cleaning cards
<b>NFC-CARDS-5PK</b>	Fibre optic cleaning cards for connector end faces 5 pack
<b>NFC-SOLVENTPEN</b>	Fibre optic cleaning solvent pen 12ml
<b>NFC-CUBE</b>	Fibre optic cleaning cube 800 use
<b>NFC-SWABS-1.25MM</b>	Fibre optic cleaning swabs for 1.25mm adaptors
<b>NFC-SWABS-2.5MM</b>	Fibre optic cleaning swabs for 2.5mm adaptors
<b>NFC-CASE</b>	Fibre optic cleaning kit case only
<b>NFC-IBC-1.25MM</b>	One click cleaner for 1.25mm connector and patchcord (5 pack)
<b>NFC-IBC-2.5MM</b>	One click cleaner for 2.5mm connector and patchcord (5 pack)
<b>NFC-IBC-MPO</b>	One click cleaner for MPO connector and patchcord (5 pack)

## ► AIR DUSTER



- Removes dust and particles from normally inaccessible areas.
- 10oz can.
- Provides a tube that securely fits in the nozzle to aid use.
- Competitively priced.

Part No:	Description:
<b>FIS-CA-10</b>	Canned air 10oz can

## ► LINT FREE WIPES



- Non abrasive.
- Used to clean fibres, ferrules and connectors.
- Used with IPA (Isopropyl Alcohol).
- Supplied in boxes of 280.

Part No:	Description:
<b>34155</b>	x 280 lint free wipes

## ► PRE-SATURATED CLEANING WIPES



- Pre-saturated in isopropyl alcohol.
- Used to clean fibres and connectors.
- Ideal replacement for dispensing bottles and lint free wipes.
- Minimises user exposure and improves health and safety.
- Non abrasive and hold strength when wet.

Part No:	Description:
<b>IPA-SAT-100</b>	IPA/DI pre-saturated wipes (tub of 100)

## ► INDIVIDUAL PRE-SATURATED WIPES



- Pre-saturated in isopropyl alcohol.
- Used to clean fibres and connectors.
- Ideal replacement for dispensing bottles and lint free wipes.
- Minimises user exposure and improves health and safety.
- Non abrasive and hold strength when wet.
- Dimensions: 180mm x 105mm unfolded.

Part No:	Description:
<b>IPA-SAT-IND</b>	Individual IPA/DI pre-saturated wipes

## ► PIANO CLEANING WIRES



- Used to unblock ferrule holes prior to terminating.
- Supplied with coloured self adhesive labels that are put on the wires to help locate them.

Part No:	Description:
<b>FIS-CW-8</b>	Flexible piano wire kit in vial (8 pieces of wire 10 coloured dots)

## ► SHARPS BIN



- For the disposal of unwanted fibre shards and used needles.
- Water resistant.
- Captive closure top for ease of use.
- Tough carrying handle ensures safety in transit.
- 1 litre capacity to 13 litre capacity.
- Construction of the bin makes incineration less hazardous than burning of plastic containers.

Part No:	Description:
<b>SHA-BIN</b>	Sharps bin (1 litre)





# TOOLS

Networks Centre stocks a reputable selection of optical and copper tools; from a number of leading manufacturers. Our brand partners include: Clauss, Abeco, Ripley, Miller, Fluke and Net-C. As well as distributing tools separately, we also supply kits and can custom build to suit your requirements. For more information, please contact us.

➤ Cutters	44
➤ Strippers	45
➤ Crimpers	46
➤ Scribes	47
➤ Polishing Pucks	48
➤ Punchdown	48
➤ Inspection Scopes	49
➤ Kits	50

**net-c™****FLUKE**  
networks™ **RIPLEY®***Clauss* **MILLER®****ABECO**

# TOOLS

## > CC SERIES CABLE CUTTERS



- > Designed to cut cables up to 13mm.
- > Designed to minimise flattening of the cable end.
- > Preformed rounded jaws automatically position the cable for optimum cutting.
- > Precision, high quality carbon steel construction.
- > Durable non-slip handle.

Part No:	Description:
<b>CC-22</b>	< 9mm
<b>CC-38</b>	< 11mm
<b>CC-60</b>	< 13mm

## > RIPLEY FIBRE OPTIC KEVLAR CUTTER



- > Designed to cut Kevlar strength members in fibre optic cables.
- > Powerful quick cutting action.
- > Full serrated edge for consistent, fast and clean cuts.
- > Lightweight and compact.
- > Return spring designed for precise repeated cuts.
- > Ergonomic handles with cushioned non-slip grips.
- > Made of high carbon steel specially treated for long life and trouble free cuts.

Part No:	Description:
<b>FOKC</b>	Kevlar Cutters

## > CABLE CUTTER FOR COPPER & WIRE



- > Used for cutting fibre and copper cables.
- > Curved blade design enhancing cutting action and prevents cable from crushing.
- > Can be locked shut to help protect blades

Part No:	Description:
<b>T0-HT-206</b>	Cable cutter for copper and fibre up to 10.5mm

## > PRECISE ELECTRICAL WIRE SIDE CUTTER



- > Precision cutter for copper cables.
- > The blades will enable copper cores to be trimmed accurately and flush.

Part No:	Description:
<b>T0-HT-222</b>	Precise electrical wire side cutter

## > KEVLAR SCISSORS



- > Hardened steel Kevlar scissors with serrated edge blade for efficient removal of Kevlar from cables.

Part No:	Description:
<b>T0-HT-C151</b>	Kevlar scissors



## > JACKET STRIPPING AND SLITTING TOOL



- > Jacket slitting and ringing tool for 4.5mm to 25mm diameter cables.
- > Adjustable height cutting blade for different sheath thickness.
- > Cuts horizontally and longitudinally for end or mid-span jacket removal.

Part No:	Description:
<b>TO-HT-325</b>	Jacket stripping and slitting tool 4.5mm to 25mm

## > TRI-HOLE BUFFER STRIPPER



- > Tri-Hole fibre stripper ideal for use in fibre preparation.
- > Precision cutting blades for 2-3mm jacket cable, 900um buffer and 250um buffer.
- > Comfortable handles and a lock for the protection of the blades.

Part No:	Description:
<b>TO-HT-S144H</b>	Tri-hole buffer stripper for 250um-900um-3mm

## > PEG STRIPPER



- > Peg style universal stripping tool with adjustable blade for cables of 3.2mm to 9mm.
- > Includes cutting blade for copper cables and dual cutting blade ideal for duplex cable.

Part No:	Description:
<b>TO-HT-S501B</b>	Peg stripper 3.5mm to 9mm, duplex cable stripper, cable cutter

## > ROUND CABLE SLITTER/STRIPPER



- > Designed for fast, safe, and precise jacket removal of LSZH, PE, PVC, rubber, and other jackets.
- > RCS-114 is for smaller diameter cables: 0.178 to 1.14 inches (4.5- 29mm).
- > RCS-158 is for larger diameter cables: 0.75 to 1.58 inches (19- 40mm).
- > 'Tri-Action Strip' capability.
- > Spiral cut for end stripping.
- > Spiral cut for mid-span stripping.
- > Spiral cutting features provides easier removal of harder jackets.
- > Spring-loaded cable brace firmly secures cable to the blade for controlled cutting action.
- > Comfort and ergonomic design for ease of use and storage.
- > Long life blade design.
- > Blade depth can be regulated with a simple turn of the blade housing.
- > Blade housing is PTEF coated, for smooth, low effort stripping.
- > Replacement blade: CB 231.
- > Length: 5.43 inches (138mm), Weight: 3.5 oz (100g).

Part No:	Description:
<b>RCS-114</b>	Cable slitter, stripper 4.5mm - 29mm
<b>CB-231</b>	Replacement Blades

## ► MILLER FIBRE OPTIC STRIPPING TOOL



- For stripping 250 micron buffer coating from 125 micron optical fibre.
- Precision diameter hole and V-opening in blade allow for accurate buffer coating removal.
- Factory set, requires no adjustment.
- Prevents scratching or nicking of optical fibre.
- All cutting surfaces are precision formed, hardened, tempered and ground assuring precise buffer removal.

Part No:	Description:
<b>FO-103-S</b>	Miller fibre optic stripper FO-103-S (80355)
<b>FO-103-T-250-J</b>	Miller Tri-Hole stripper

## ► CLAUSS FIBRE OPTIC STRIPPER



- For stripping 125 micron fibre with 250 micron buffer coating.
- 1.0mm diameter stripping hole at the tip of the tool can be used to strip the fibre jacket.
- 140µm diameter hole and V-opening in blade allows removal of 250 micron buffer coating from 125 micron fibre.
- Pre-set at the factory – no adjustments needed.
- Will not scratch or nick glass fibre.
- All stripping surfaces are manufactured to precise tolerances to assure clean, smooth strips.
- Comfort-grip, ergonomic handles.
- Lock to hold tool closed when it is not in use.

Part No:	Description:
<b>CFS-2</b>	Clauss fibre optic stripper

## ► CRIMP TOOL



- Rugged crimp tool for most standard fibre optic connectors including LC, SC, ST and FC.
- It has a ratchet mechanism ensuring a good quality, consistent crimp is performed with every operation.

Part No:	Description:
<b>T0-HT-336J</b>	Crimp tool for ST-SC-FC-LC

## ► RJ45 CRIMPING TOOL



- Rugged crimp tool for RJ45, RJ11 and RJ12 style plugs.
- Ratchet mechanism to ensure a good quality consistent crimp is performed with every operation.

Part No:	Description:
<b>T0-HT-568R</b>	RJ45 crimping tool with cutter





## ➤ CLEAVING PLATE



- Used for removing the fibre sprig during connector terminations.
- Made from ceramic.
- Dimensions 50mm square.
- 2 sides ground down to form cutting edge.
- Supplied with plastic guard to protect cutting edge.

Part No:	Description:
<b>CP-UNI</b>	Ceramic fibre cleave plate (stripper F780-136-000)

## ➤ CARBIDE TIP FIBRE OPTIC SCRIBE



- The CS-30-W is a 30-degree wedge-tip carbide scribe 3.8mm wide for long life and simple fibre termination.
- Housed in a rugged, anodized aluminum casing 112mm long and 25mm in diameter.
- The CS-30-W includes a convenient pocket clip and soft, brightly coloured, protective "squeeze and pull" cap for easy and quick tool selection.

Part No:	Description:
<b>CS-30-W</b>	Ripley carbide scribe

## ➤ DS-60-C AND DS-90-W DIAMOND-TIP FIBRE OPTIC SCRIBES



- Quality fibre optic scribes featuring a protective retractable barrel with pocket clip and a stainless steel mounted diamond tip and your choice of conical or wedge shapes.
- These scribes are specially made for the "scratch and pull" technique of scribing optical fibre. The wedge shape provides a more durable edge.
- The DS-60-C is a 60° Cone Angle-Diamond Tip Retractable Scribe.
- The DS-90-W is a 90° Wedge-Diamond Tip Retractable Scribe.
- Length: 137mm.

Part No:	Description:
<b>DS-60-C</b>	60 degree cone angled diamond tip retractable scribe
<b>DS-90-W</b>	90 degree wedge diamond tip retractable scribe

## ➤ CARBIDE SCRIBE



Quality, pen style carbide scribe, has protective lid for blade.

Part No:	Description:
<b>T0-HT-MJ018A</b>	Carbide scribe

## ➤ 2.5MM AND 1.25MM STAINLESS STEEL POLISHING PUCKS



- High quality hand polishing disc for fibre optic connectors.
- "Universal" design fits most 2.5mm ferrule connectors including: ST, SC and FC connectors.
- Inside and outside rims designed for improved hand positioning while performing the polishing operation.
- Channelled, raised base allows debris to escape easily and provide for easy polishing action.
- High quality, precision machined stainless steel design for long life.
- Diameter: 1.94 inches (49.2mm).
- Weight: 1.5oz (43g).
- Available for LC connectors (aluminum disc for 1.25mm ferrule LC connectors).

Part No:	Description:
<b>PUCK-2.5M</b>	2.5mm polishing puck
<b>PUCK-1.25M</b>	1.25mm polishing puck

## ➤ 2.5MM PLASTIC POLISHING PUCK



- Low cost hand polishing disc.
- "Universal" design fits most 2.5mm ferrule connectors including: ST, SC and FC connectors.
- Also available for LC and MTRJ connectors.

Part No:	Description:
<b>PUCK-2.5-P</b>	2.5mm plastic polishing puck

## ➤ UNIVERSAL POLISHING PUCKS



Universal metal polishing pucks for polishing fibre connectors.

Part No:	Description:
<b>TO-HT-MMB005</b>	2.5mm universal polishing puck, metal
<b>TO-HT-MMB020</b>	1.25mm universal polishing puck

## ➤ IMPACT PUNCHDOWN TOOL



- Ergonomically designed punch down tool with variable impact pressure and built in hook and tracer.
- Blades are interchangeable with storage for spare blade available in the handle.

Part No:	Description:
<b>TO-HT-364BKR</b>	Impact punch down tool with krone blade
<b>TO-HT-364BR</b>	Impact punch down tool with 110 blade



## ► JACKRAPID™



JackRapid™ is a patented jack termination tool that saves time and increases accuracy by seating and terminating all wires at once with a simple squeeze of the handle. JackRapid™ allows you to terminate jacks eight times faster than traditional impact tools - with accuracy that's unmatched. The patented jack termination tool seats and terminates all wires simultaneously. The built-in blade cuts off the excess wire after it is seated in the connector, eliminating the need for a secondary trim step. Simple, one-handed operation,

with an ergonomically designed handle, reduces hand fatigue. With JackRapid™, you'll never punch into the palm of your hand or through drywall again.

- Cuts installation time - easy to use handle, seats and cuts all wires at once, saving you up to 1 minute installation time per jack!
- High quality, consistent terminations - no more compromised connections and wasted jacks.
- Simple, one-handed operation with an ergonomically designed handle reduces hand fatigue.
- Unique design easily accommodates close-to-wall installation.
- Replaceable blade head for use with multiple jack types.

Part No:	Description:
<b>JR-PAN-2</b>	Jackrapid Panduit™ termination tool (Panduit™ NK688M, NKP5E88M)
<b>JR-SYS-2</b>	Jackrapid Systimax termination tool (Systimax MGS400, MGS500, MFP420, MFP520)

## ► AWT FOMS INSPECTION MICROSCOPES



Rugged, hand held microscope for viewing connector end faces. Available as x200 magnification or x400 magnification for viewing either singlemode or multimode connectors. Supplied as standard with 2.5mm universal ferrule adapter, 1.25mm adapter also available.

Part No:	Description:
<b>AWT-OS-400</b>	AWT FOMS inspection microscope 400 magnification 2.5mm uni adaptor
<b>AWT-OS-200</b>	AWT FOMS inspection microscope 200 magnification 2.5mm uni adaptor
<b>AWT-AD-LC</b>	LC adaptor for AWT microscope
<b>AWT-AD-SC/ST</b>	SC-ST adaptor for AWT microscope

## ► FLUKE PRO TOOL KIT



The most essential tools for electrical and telecom technicians in our sleek form-fitting PVC Dur-A-Grip™ Tool Pouch – holds your tools securely inside, even upside down. Six tool kits combinations to choose from to meet a multitude of applications.

- All kits include ergonomically designed Dur-a-Grip pouch for convenient tool storage on belt.
- D914™ and D814™ industry standard punchdown tools make for solid terminations
- Easy to use cable stripper quickly rings and slits many types of cable
- Use the Probe Pic to check for loose or damaged connections
- Cut and strip wire cleaner and faster with the Electricians' D-Snips™

Part No:	Description:
<b>11293000</b>	Fluke Protocol kit IS60

## ► COLD CURE TERMINATION KIT



The New Net-C fibre termination kit provides all the tools required to terminate fibre cables. Using Loc Tite cold cure epoxy no power is required and the tool case can even be used as a work area for polishing. Suitable for most fibre connectors including LC, SC, ST and FC connectors. Each tool is individually located in dense foam to secure in place. Replacement consumables are available.

### Tool case includes:

- 1 x Jacket slitting and stripping tool 4.5mm to 25mm
- 1 x Cable cutter up to 10.5mm
- 1 x Kevlar cutters
- 1 x Tri-hole buffer strippers for 250um, 900um and 2mm jacket
- 1 x Universal jacket stripper and cutter 3.5mm to 9mm
- 1 x Universal crimp tool for SC, ST, FC and LC connectors
- 1 x 2.5mm universal ferrule polishing puck
- 1 x 1.25mm universal ferrule polishing puck
- 1 x Carbide Scribe
- 1 x Sharps bin
- 1 x x200 microscope with 2.5mm ferrule adapter
- 1 x LC adapter for microscope
- 1 x Small glass polishing plate 240mm x 100mm x 6mm
- 1 x Lint free wipes
- 1 x Loc-Tite 638 cold cure epoxy 50ml
- 1 x Loc-Tite 7649 activator 150ml
- 3 x 9um lapping film-240mm x 100mm x 6mm
- 3 x 3um lapping film-240mm x 100mm x 6mm
- 3 x 1um lapping film-240mm x 100mm x 6mm

Part No:	Description:
<b>TO-NC-FOTK</b>	Fibre optic cold cure termination kit

## ► TOOL ROLL FOR SPLICING WITH CUTTING AND STRIPING TOOLS



Handy tool roll that includes every tool needed for fibre preparation prior to splicing. Includes:

- 1 x Small tool roll with 9 pockets 380mm x 200mm
- 1 x Cable cutter for copper and fibre up to 10.5mm
- 1 x Jacket stripping and slitting tool 4.5mm to 25mm
- 1 x Kevlar cutting scissors
- 1 x Peg stripper 3.5mm to 9mm, duplex cable stripper
- 1 x Tri-hole buffer stripper for 250um - 900um - 3mm
- 1 x Precise electrical wire side cutter

Part No:	Description:
<b>NC-TO-SPLICER</b>	Tool roll for splicing with cutting and striping tools



# COPPER CABLING

Networks Centre distributes a low cost range of Cat5e and Cat6 copper cabling products. Products are high quality and available on a next day delivery, at exceptionally competitive prices.

➤ <b>Cat5e</b>	
Cables	52
Patch Panels	52
Modules	53
Patchcords	53
Plugs	54
➤ <b>Plastics</b>	54
➤ <b>Cat6</b>	
Cable	55
Patch Panels	55
Modules	55
Patchcords	56
Plugs	56

## ➤ CAT5e COPPER CABLES



The Net-C solid conductor 4 pair U/UTP Category 5e compliant cable is supplied in standard 305m lengths in colour coded boxes / wooden reel. Available in three different sheaths LSOH, PVC and external PE.

### Features & Benefits:

The cable is metre marked in reverse from 305m to 0m so you are always aware of the amount of cable left in the box. Outer sheath can be specified as grey PVC, violet LSOH or now with an external grade black PE. A ripcord is supplied for easy removal of the sheath

- ROHS Compliant.
- Available In 3 different sheath's.

### Technical Data:

- Conductor: 24 AWG Plain copper.
- Insulation: HDPE.
- Construction: 4 twisted pair.
- Jacket: PVC grey / LSOH violet / PE black.
- O/D: 4.8mm PVC / 5mm LSOH / 5mm PE.
- Weight: 29kg/km PVC / 30kg/km LSOH / 25kg/km PE.
- Operating Temperature: -20C to +75C.
- Bend radius: 4 x O/D.
- Pull Tension: 110 N.
- NVP: 65.

Part No:	Description:
<b>NC-C5E-CBL-UTP-305-EX</b>	Net-C copper cable, 24 AWG, Cat5e UTP - external black, 305m reel
<b>NC-C5E-CBL-UTP-305-LSOH</b>	Net-C copper cable, 24 AWG, Cat5e UTP - LSOH violet, 305m box
<b>NC-C5E-CBL-UTP-305-PVC</b>	Net-C copper cable, 24 AWG, Cat5e UTP - PVC grey, 305m box

## ➤ CAT5e PATCH PANELS



### Specifications:

- Width: 484mm.
- Height: 44mm (24 port) 88mm (48 port).
- Depth: 34mm.
- Material: High carbon steel.
- Colour: Black powder coating.
- Termination: Dual 110/LSA style IDC.
- Colour code: T568B.
- Standard compliance: ANSI/TIA/EIA/568B.2 and ISO/IEC 11801.

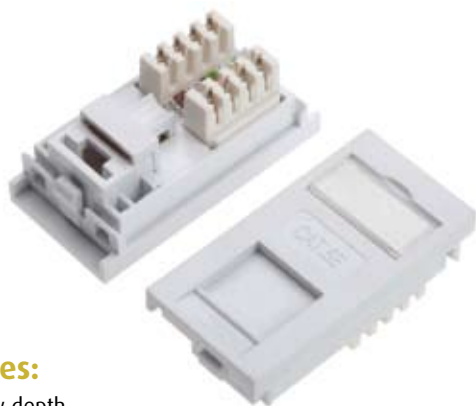
### Features:

- Dual IDC.
- Write-on Labels.
- Clip on Rear cable management available.

Part No:	Description:
<b>NC-C5E-PAT-UTP-48</b>	48 port Cat5e UTP patch panel dual use IDC without back bar
<b>NC-C5E-PAT-UTP-48-M</b>	48 port Cat5e UTP patch panel dual use IDC with back bar
<b>NC-C5E-PAT-UTP-24</b>	24 port Cat5e UTP patch panel dual use IDC without back bar
<b>NC-C5E-PAT-UTP-24-M</b>	24 port Cat5e UTP patch panel dual use IDC with back bar



## ➤ CAT5e MODULES



### Features:

- Shallow depth.
- Write-on label.
- A/B wired.

### Specifications:

- Width: 25mm.
- Height: 50mm.
- Depth: 18.2mm.
- Material: Plastic.
- Termination: LSA style IDC.
- Colour code: T568A/B.
- Standard compliance: ANSI/TIA/EIA/568B.2 and ISO/IEC 11801.

Part No:	Description:
<b>NC-C5E-MOD-UTP</b>	Cat5e UTP EURO module krone IDC termination 90 degree
<b>NC-C5E-MOD-LJ6-UTP</b>	Cat5e UTP LJ6C module

## ➤ CAT5e PATCHCORDS

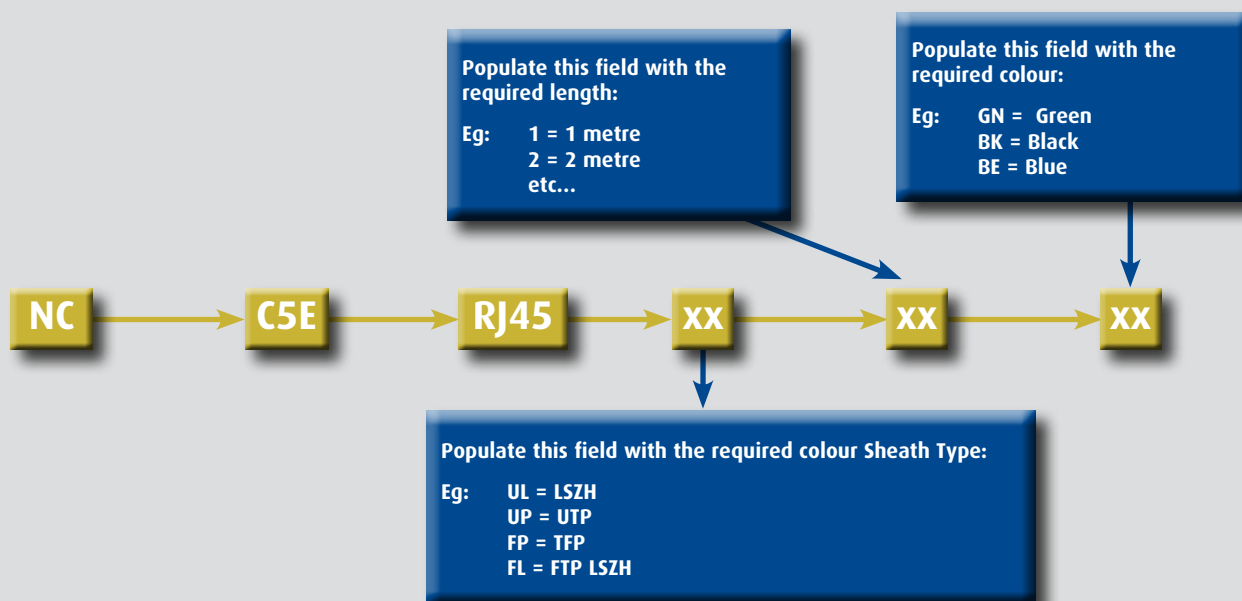


Our copper patchcords are manufactured to exceed the performance characteristics as detailed in ISO-11801 and EIA/TIA-568B. They are manufactured using stranded cables and high quality plugs and can be supplied with PVC or LSOH sheath as standard. All leads come with moulded, snag free boots to ease installation. Available in a variety of colours and lengths to suit. Leads are supplied fully tested and in individual bags.

### Features:

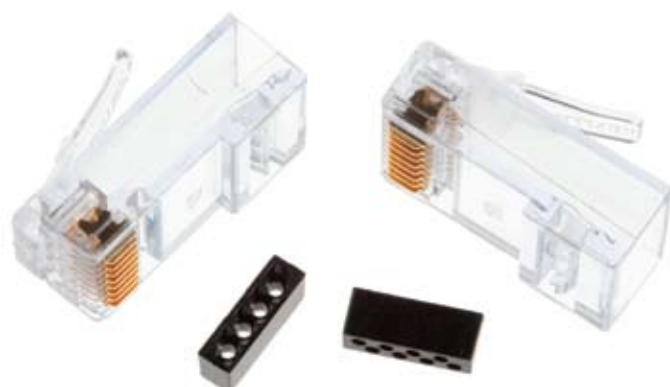
- ROHS Compliant.
- ISO-11801 and EIA/TIA-568B.
- Bar-coded for traceability.
- Available in any colour and length.

## HOW TO CREATE OUR CAT5e PATCHCORDS PART NUMBERS



Eg: NC-C5E-RJ45-UL-1-BK = 1M RJ45 CAT5e UTP PATCHCORD LSZH BLACK

## ➤ CAT5e PLUGS



- RJ45 crimp-on connectors for use with stranded Cat5e twisted pair cable.
- 30µ" gold plated for reliability.
- Made from high quality polycarbonate.
- 100 in each pack.

Part No:	Description:
<b>NC-C5E-PLUG-UTP-SOL</b>	Cat5e UTP solid crimp plug RJ45
<b>NC-C5E-PLUG-UTP-STR</b>	Cat5e UTP stranded crimp plug RJ45

# PLASTICS

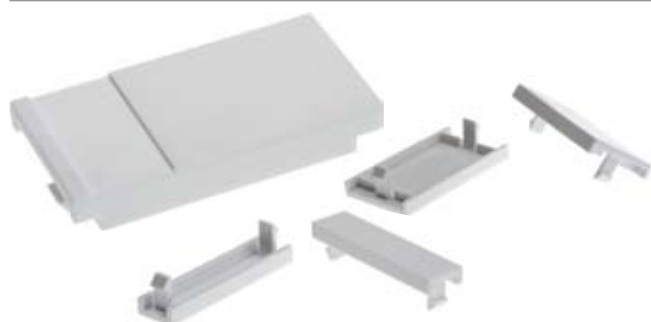
## ➤ FACE PLATES



Net-C plastic faceplates are suitable for all standard UK outlets. Available bevelled or Flat to meet requirements.

Part No:	Description:
<b>NC-SGFP-F</b>	Single gang face plate, UK type, 2 port 86 x 86 flat
<b>NC-SGFP-B</b>	Single gang face plate, UK type, 2 port 86 x 86 bevelled
<b>NC-DGFP-F</b>	Double gang face plate, UK type, 4 port 86 x 146 flat
<b>NC-DGFP-B</b>	Double gang face plate, UK type, 4 port 86 x 146 bevelled

## ➤ BLANKS



Various blanking plates are available for all standard UK outlets or '6C' style floor boxes.

Part No:	Description:
<b>NC-HB</b>	Half blanks for UK type face plate 25mm x 50mm
<b>NC-QB</b>	Quarter blanks for UK type face plate 12.5mm x 50mm
<b>NC-LJ6</b>	LJ6c blank module

## ➤ BACK BOXES



Plastic back boxes at various depths to suit all standard UK face plates.

Part No:	Description:
<b>NC-DB-BB</b>	Net-C double gang back box
<b>NC-SG-BB</b>	Net-C single gang back box



Can't find what you're looking for? Then contact us...



## ➤ CAT6 COPPER CABLE



The Net-C solid conductor 4 pair U/UTP Category 6 compliant cable is supplied in standard 305m lengths in colour coded boxes. The cable construction includes a cross filler to ensure correct pair separation along with a ripcord for easy removal of the sheath. The cable is metre marked in reverse from 305m to 0m so you are always aware of the amount of cable left in the box.

### Technical Data:

- Conductor: 23 AWG Plain copper.
- Insulation: HDPE.
- Construction: 4 twisted pair.
- Jacket: LSOH violet
- O/D: 6.1mm LSOH.
- Weight: 40kg/km LSOH.
- Operating Temperature: -20C to +75C.
- Bend radius: 4 x O/D.
- Pull Tension: 110 N.
- NVP: 65%.

Part No:	Description:
<b>NC-C6-CBL-UTP-305-LSOH</b>	Net-C copper cable, 23 AWG, Cat6 UTP- LSOH violet, 305m box

## ➤ CAT6 PATCH PANELS



### Features:

- Dual IDC
- Write-on Labels
- Clip on rear cable management available

### Specifications:

- Width: 484mm.
- Height: 44mm (24 port).
- Depth: 34mm.
- Material: High carbon steel.
- Colour: Black powder coating.
- Termination: Dual 110/LSA style IDC.
- Colour code: T568B.
- Standard compliance: ANSI/TIA/EIA/568B.2 and ISO/IEC 11801.

Part No:	Description:
<b>NC-C6-PAT-UTP-24</b>	24 port Cat6 UTP patch panel dual use IDC without back bar
<b>NC-C6-PAT-UTP-24-M</b>	24 port Cat6 UTP patch panel dual use IDC with back bar

## ➤ CAT6 MODULES



### Specifications:

- Width: 25mm.
- Height: 50mm.
- Depth: 18.2mm.
- Material: Plastic.
- Termination: LSA style IDC.
- Colour code: T568A/B.
- Standard compliance: ANSI/TIA/EIA/568B.2 and ISO/IEC 11801.

### Features:

- Shallow depth.
- Write-on label.
- A/B wired.

Part No:	Description:
<b>NC-C6-MOD-UTP</b>	Cat6 UTP module UK type krone IDC termination 90 degree
<b>NC-C6-MOD-LJ6-UTP</b>	Cat6 UTP LJ6C module

## ➤ CAT6 PATCHCORDS

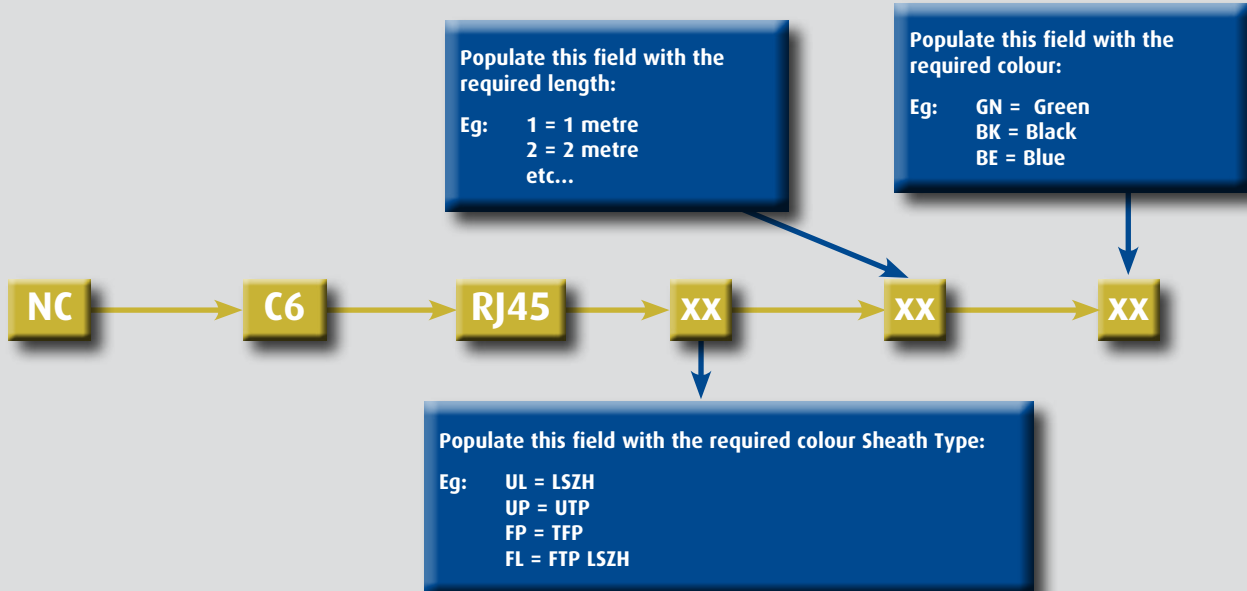


Our copper patchcords are manufactured to exceed the performance characteristics as detailed in ISO-11801 and EIA/TIA-568B. They are manufactured using stranded cables and high quality plugs and can be supplied with PVC or LSOH sheath as standard. All leads come with moulded, snag free boots to ease installation. Available in a variety of colours and lengths to suit. Leads are supplied fully tested and in individual bags.

### Features:

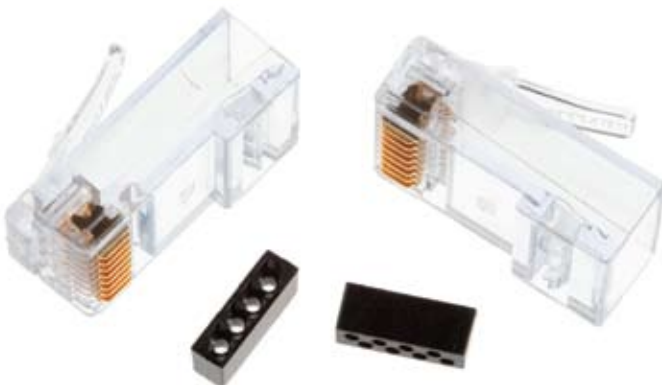
- ROHS Compliant.
- ISO-11801 and EIA/TIA-568B.
- Bar-coded for traceability.
- Available in any colour and length.

## HOW TO CREATE OUR CAT6 PATCHCORDS PART NUMBERS



Eg: NC-C6-RJ45-UL-1-BE = 1M RJ45 CAT6 UTP PATCHCORD LSZH BLUE

## ➤ CAT6 PLUGS



- RJ45 crimp-on connectors for use with solid-core Cat6 twisted pair cable.
- 30µ" gold plated for reliability.
- Made from high quality polycarbonate.
- 100 in each pack.

Part No:	Description:
<b>NC-C6-PLUG-UTP-SOL</b>	Cat6 UTP solid crimp plug RJ45
<b>NC-C6-PLUG-UTP-STR</b>	Cat6 UTP stranded crimp plug RJ46



Can't find what you're looking for? Then contact us...

# NETWORKING

Networks Centre offers KBC's ruggedised networking products, designed to suit hazardous environments. AMP Tyco's range of standard 10/100 and 1000 base are also available from stock, as well as their 19" slot-in chassis systems. We also stock the highly competitively priced range of Net-C 10/100 media converters, available in both singlemode and multimode.

- ▶ Industrial Media Convertors 58
- ▶ Media Convertors 59
- ▶ Industrial Switches 61
- ▶ Tyco Switches 63

**net-c™****AMP**  
NETCONNECT**KBC**  
data delivered

# INDUSTRIAL MEDIA CONVERTORS

## ► KBC MCG1 10/100/1000 ETHERNET MEDIA CONVERTER



**X** = MSB – Compact; DSB – DIN Rail; BS – Card  
singlemode versions also available

The KBC MCG1 series is a fully ruggedised 10/100/1000 Ethernet media converter. It supports transmission of an Ethernet channel over either one or two, multimode or singlemode optical fibres. The plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to show the operational status of the unit clearly. The series is available in compact, din rail or 3U chassis card configurations.

### Features:

- Wide operational temperature range.
- IEEE802.3ab compliant.
- Ultra-compact footprint.
- Multimode and singlemode interfaces.
- Single and dual fibre.
- LEDs for Fibre connection and 100/1000 speed indication.
- LEDs L/A (link activity) and DUP (half and full Duplex operation).

Part No:	Description:
<b>K-MCG1-M2-X</b>	Gigabit Ethernet media converter 2 MM fibre
<b>K-MCG1-M1A-X</b>	Gigabit Ethernet media converter "A" TX, 1 MM fibre
<b>K-MCG1-M1B-X</b>	Gigabit Ethernet media converter "B" RX, 1 MM fibre
<b>K-MCG1-M2-XXX</b>	Gigabit Ethernet media converter 2 fibre MM 12dB ST
<b>K-MCG1-M1A-XXX</b>	Gigabit Ethernet media converter A 1 fibre MM 12dB ST
<b>K-MCG1-M1B-XXX</b>	Gigabit Ethernet media converter B 1 fibre MM 12dB ST

## ► KBC FTL 10/100 ETHERNET MEDIA CONVERTER



**X** = MSB – Compact; DSB – DIN Rail; BS – Card  
singlemode versions also available

The KBC FTL series is a fully ruggedised 10/100 Ethernet media converter. It supports transmission of an Ethernet channel over either one or two, multimode or singlemode optical fibres. Full duplex operation enables distances in excess of 30km on singlemode fibre. The plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to show the operational status of the unit clearly. The series is available in compact, DIN rail or 3U chassis card configurations.

### Features:

- Wide operational temperature range.
- 100BASE-FX on 2 fibre units.
- Ultra-compact footprint.
- 10/100 auto-sensing.
- Multimode and singlemode interfaces.
- Single and dual fibre.
- MDI / MDIX.

Part No:	Description:
<b>K-FTL1-M2-X</b>	10/100 Ethernet media converter, 2 MM fibre
<b>K-FTL1-M1A-X</b>	10/100 Ethernet media converter "A" TX, 1 MM fibre
<b>K-FTL1-M1B-X</b>	10/100 Ethernet media converter "B" RX, 1 MM fibre



Can't find what you're looking for? Then contact us...



## ► KBC FTL51 10/100 ETHERNET MEDIA CONVERTER WITH POE



The KBC FTL51 series is a fully ruggedised 10/100 Ethernet Media Converter with PoE (Power over Ethernet). The unit acts as a PSE (Power Sourcing Equipment) providing 25.5W @ 48Vdc and is fully compliant with the IEEE 802.3at specification. It supports transmission of an Ethernet channel over either one or two, multimode or singlemode optical fibres. Full-duplex operation enables distances in excess of 30km on singlemode fibre. The plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to clearly show the operational status of the unit. The series is available in a wall mount configuration only.

### Features:

- IEEE 802.3at compliant.
- Wide operational temperature range.
- Mode A Mode B Switchable.
- 100 BASE-FX on 2 fibre units.
- 10/100 auto sensing.
- Multimode and singlemode interfaces.
- Single and dual fibre.

Part No:	Description:
<b>K-FTLS1-M2-WSB</b>	10/100 Ethernet media converter, 802.3at PSE, 2 no. MM fibres. Wall mount
<b>K-FTLS1-M1A-WSB</b>	10/100 Ethernet media converter "A" TX, 802.3at PSE, 1 no. MM fibre. Wall mount
<b>K-FTLS1-M1B-WSB</b>	10/100 Ethernet media converter "B" RX, 802.3at PSE, 1 no. MM fibre. Wall mount
<b>K-FTLS1-S2-WSB</b>	10/100 Ethernet media converter, 802.3at PSE, 2 no. SM fibres. Wall mount
<b>K-FTLS1-S1A-WSB</b>	10/100 Ethernet media converter "A" TX, 802.3at PSE, 1 no. SM fibre. Wall mount
<b>K-FTLS1-S1B-WSB</b>	10/100 Ethernet media converter "B" RX, 802.3at PSE, 1 no. SM fibre. Wall mount

# MEDIA CONVERTORS

## ► 10/100MBIT/S ETHERNET MEDIA CONVERTERS



- Extend 10Base-T and 100Base-TX Ethernet LAN signals from S/UTP Cat3/5/5e structured wiring over multimode and singlemode optical fibres using the 100Base-FX Ethernet standard.
- Simple and easy to install.
- Meets all the relevant industry standards for 100Mbit/s Ethernet.
- Available in SC, ST, FC and LC configuration.
- Standalone converters can be 19" rack mounted in an AC powered enclosure.
- Available in multimode and singlemode fibre formats and singlemode WDM single fibre.
- LED indicators for monitoring and diagnostics.
- Compact size and cost effective solution.

Part No:	Description:
<b>MC-0-1591024-X</b>	10/100M Multimode SC Media Converter
<b>MC-0-1591026-X</b>	10/100M Multimode ST Media Converter
<b>MC-0-1591030-X</b>	10/100M Singlemode SC Media Converter
<b>MC-0-1591029-X</b>	10/100M Singlemode SC WDM 1550nm
<b>MC-0-1591031-X</b>	10/100M Singlemode SC WDM 1310nm

## ► GIGABIT ETHERNET MEDIA CONVERTERS



- Extend Gigabit Ethernet 10/100/1000 Base-T LAN signals from S/UTP Cat5e structured cable over either multimode or singlemode optical fibres using the 1000Base-SX and 1000Base-LX standards.
- Automatically negotiate the MDI/MDI-X crossover state eliminating the need for crossover RJ45 cables which simplifies installation.
- Support for auto-negotiation and link loss forwarding further enhances this high functionality converter.
- Meeting relevant industry standards for Gigabit 1000Mbit/s Ethernet.
- Installation is 'plug and play' requiring no technical knowledge.
- Ideal for demanding LAN applications.

Part No:	Description:
<b>MC-0-1591020-X</b>	1000Base-SX (multimode) Converter
<b>MC-0-1591022-X</b>	1000Base-LX (singlemode) Converter

## ► 19" RACKMOUNT 10 SLOT CHASSIS SYSTEM



- Supports up to 10 of the 10/100Mbit/s and Gigabit Ethernet Media Converters.
- Enables very simple and effective termination of Ethernet and other circuits in the wiring closet or equipment room.
- Ideal for enterprise environments.
- Different media converter types can be freely mixed and hot swapped within the chassis enabling highly flexible solutions to be created.
- Second power supply can be fitted into the chassis to deliver reliable dual redundant power system.

Part No:	Description:
<b>MC-0-1591032-X</b>	10 slot chassis system with 1 power unit
<b>MC-0-1591034-0</b>	Spare/redundant AC power unit for chassis

## ► NET-C MEDIA CONVERTOR



MC-SC

net-c™



MC-ST

- Extend 10Base-T and 100Base-TX Ethernet LAN signals from S/UTP Cat3/5/5e structured wiring over multimode or singlemode optical fibres using the 100Base-FX Ethernet standard.
- Simple and easy to install.
- Meets all the relevant industry standards for 100Mbit/s Ethernet.
- Available in SC, ST, FC and LC configuration.
- Standalone converters can be 19" rack mounted in an AC powered enclosure.
- Available in multimode and singlemode fibre formats and singlemode WDM single fibre.
- LED indicators for monitoring and diagnostics.

Part No:	Description:
<b>MC-SC-10/100-MM</b>	10-100 multimode media converter with SC adaptor
<b>MC-SC-10/100-SM</b>	10-100 singlemode media converter with SC adaptor
<b>MC-ST-10/100-SM</b>	10-100 singlemode media converter with ST adaptor
<b>MC-ST-10/100-MM</b>	10-100 multimode media converter with ST adaptor



Can't find what you're looking for? Then contact us...

## ► KBC ESUL8 ETHERNET SERIES



### Features:

- Low power.
- Broad, dual redundant power input.
- Full and half duplex operation.
- MDI/MDI-X.
- IP40 protection class.

The KBC ESUL8 Ethernet series is an entry level, ultra low power, unmanaged industrial switch. The series is designed for use in a wide range of operating temperatures in non-environmentally conditioned, industrial applications. The switch provides connectivity for up to eight 10/100 Mbps twisted pair copper ports which are automatically configured and, with plug-and-play design, provides ease and speed of installation. The series is available in either DIN rail or wall mount configurations.

Part No:	Description:
<b>K-ESUL8-DCB</b>	8 port RJ45 10/100 unmanaged switch DIN/wall

## ► KBC ESUL5 ETHERNET SERIES



### Features:

- Low power.
- Broad, dual redundant power input.
- Full and half duplex operation.
- MDI/MDI-X.
- IP40 protection class.

The KBC ESUL5 Ethernet series is an entry level, ultra low power, unmanaged industrial switch. The series is designed for use in a wide range of operating temperatures in non-environmentally conditioned, industrial applications. The switch provides connectivity for up to eight 10/100 Mbps twisted pair copper ports which are automatically configured and with plug-and-play design, provides ease and speed of installation. The series is available in either DIN rail or wall mount configurations.

Part No:	Description:
<b>K-ESUL5-DCB</b>	5 port RJ45 10/100 unmanaged switch DIN/wall

## ► KBC ESUL4-FL1 ETHERNET SERIES



### Features:

- Low power.
- Broad, dual redundant power input.
- Full and half duplex operation.
- MDI/MDI-X.
- IP40 protection class.

The KBC ESUL4-FL1 Ethernet series is an ultra low power, unmanaged industrial Ethernet switch designed for use in a wide range of operating temperatures in non-environmentally conditioned, industrial applications. The switch provides connectivity for up to four 10/100 Mbps twisted pair copper ports and one multimode or singlemode 100 Mbps fibre port. All ports are automatically configured and the plug-and-play design provides ease and speed of installation. The series is available in either DIN rail or wall mount configurations.

Part No:	Description:
<b>K-ESUL4-FL1-M2-DB</b>	4 port RJ45 1 port SC fibre 10/100 unmanaged switch DIN/Wall mount 2 MM fibres
<b>K-ESUL4-FL1-S2-DB</b>	4 port RJ45 1 port SC fibre 10/100 unmanaged switch DIN/Wall mount 2 SM fibres

## ► KBC ESUL6-FL2 ETHERNET SERIES



The KBC ESUL6-FL2 Ethernet series is an unmanaged industrial switch designed for use in a wide range of operating temperatures in non-environmentally conditioned, industrial applications. The switch provides connectivity for up to six 10/100 Mbps twisted pair copper ports and two multimode or singlemode 100 Mbps fibre

ports. All ports are automatically configured and the plug-and-play design provides ease and speed of installation. Redundancy is offered through the DT-Ring technology that recovers cable or port failures automatically in less than 100ms. The series is available in either DIN rail or wall-mount configurations.

### Features:

- Supports DT-Ring recovery, <100ms.
- Redundant power input.
- Alarm output for power supply.
- Port status indicators.
- IP40 protection class.

Part No:	Description:
<b>K-ESUL6-FL2-M2-DB</b>	6 port RJ45 2 port SC fibre 10/100 unmanaged switch DIN/Wall mount 2 MM fibres
<b>K-ESUL6-FL2-S2-DB</b>	6 port RJ45 2 port SC fibre 10/100 unmanaged switch DIN/Wall mount 2 SM fibres
<b>K-ESML6-FL2-M2-DB</b>	6 port RJ45 2 port SC fibre 10/100 managed switch DIN/Wall mount 2 MM fibres
<b>K-ESML6-FL2-S2-DB</b>	6 port RJ45 2 port SC fibre 10/100 managed switch DIN/Wall mount 2 SM fibres
<b>K-ESML6-FG3-P2-DB</b>	6 port RJ45 10/100 3 port SFP managed switch DIN/Wall mount

## ► KBC ESML3-FL2-D4 ETHERNET SERIES



The KBC ESML3-FL2-D4 Ethernet series is a managed industrial switch designed for use in a wide range of operating temperatures in non-environmentally conditioned, industrial applications. The switch provides connectivity for up to three 10/100 Mbps twisted pair copper ports, two multimode or singlemode 100 Mbps fibre ports and four serial data (RS232/RS485) ports. Redundancy is offered through DT-Ring technology that recovers cable or port failures automatically in less than 50ms. Units can be fully managed through a number of different interfaces and provide a vast range of hardware and software features ensuring ease of installation and enhancement of network performance. The series is available in either DIN rail or wall-mount configurations.

### Features:

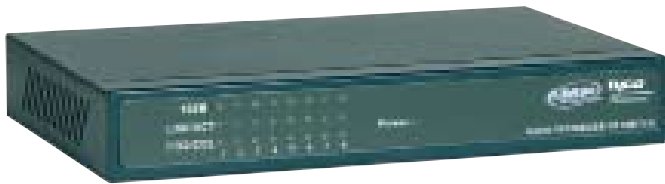
- Integrated 4 port terminal server.
- Supports DT-Ring recovery, <50ms.
- Redundant power input.
- Alarm output for power supply.
- Port status indicators.
- Supports QoS, VLAN, SNMP, MIB V1/V2/V3, IGMP snooping, port mirroring, port trunking, static MAC address binding.
- Broadcast storm control.
- IP40 protection class.

Part No:	Description:
<b>K-ESML3-FL2-D4-M2-DB</b>	3 RJ45 2 port SC fibre 10/100 managed, 4 port serial DIN/Wall mount 2 MM fibres





## ➤ 8 PORT UTP/STP COMPACT ETHERNET SWITCH



- Easy to install.
- 8 UTP / STP 10/100Mbit/s copper ports.
- Robust metal case helps to protect the very compact switches from damage.
- Meets all relevant industry standards for 10Mbit/s and 100Mbit/s
- Fully compatible with 10Base-T and 100Base-TX Fast Ethernet standards.
- Supports full or half duplex auto-negotiation together with N-Way compatibility on the UTP ports.
- LED indicators for monitoring and diagnostics.
- Very cost effective solution.

Part No:	Description:
<b>SW-0-1591036-X</b>	8 port compact S/UTP 10/100M switch

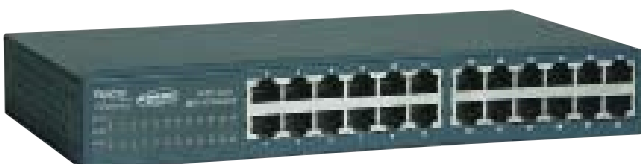
## ➤ 16 PORT UTP/STP COMPACT ETHERNET SWITCH



- Easy to install.
- 16 port Ethernet LAN switch is ideal for small applications.
- Installation is simplified by full speed auto-negotiation and MDI/MDI-X detection which eliminates the need for crossover cables.
- Internal auto-ranging AC/DC power unit powers the switch.
- Can be 19" rack mounted.

Part No:	Description:
<b>SW-0-1591070-X</b>	16 port compact S/UTP 10/100M switch

## ➤ 24 PORT UTP/STP COMPACT ETHERNET SWITCH



- Simple, compact and easy to use.
- 24 port Ethernet LAN switches are ideal for medium size applications.
- Installation problems are eliminated by the advanced auto-negotiation of speed, duplex and MDI/MDI-X modes.
- Can be rack mounted in 10" or 19" frames.
- Robust metal cage.
- Internal auto-ranging AC/DC power unit powers the switch.

Part No:	Description:
<b>SW-0-1591072-X</b>	24 port compact S/UTP 10/100M switch

## ➤ 16 PORT SMART SWITCH II WITH OPTIONAL FIBRE UPLINK



- Cost effective, compact and easy to install.
- Ideal for connecting medium size workgroups over a fibre 100Mbit/s or 2 x 1000Mbit/s Ethernet link.
- Uplink module can be plugged into the front of the switch which supports a range of optical or gigabit copper ports.
- Switch can be configured to support VLANs and QoS using the local console port.

- Wire speed switch fabric provides non-blocking performance.
- Rack mountable into 19" racks using the 2 supplied brackets.
- Internal AC power unit to improve reliability of the system.

Part No:	Description:
<b>SW-0-1591047-X</b>	16 Port S/UTP 10/100M Smart Switch II
<b>SW-0-1591094-0</b>	SC Multimode Fibre Plug-In Option Module
<b>SW-0-1591095-0</b>	ST Multimode Fibre Plug-In Option Module
<b>SW-0-1591096-0</b>	SC Singlemode Fibre Plug-In Option Module
<b>SW-0-1591097-0</b>	Dual SC Gigabit Multimode SX Option Module
<b>SW-0-1591098-0</b>	Dual SC Gigabit Singlemode LX Option Module
<b>SW-2-1591019-0</b>	Dual Gigabit Copper 1000BaseT Option Module

## ➤ 24 PORT SMART SWITCH II WITH OPTIONAL FIBRE UPLINK



- Cost effective, compact and easy to install.
- 10/100Mbit/s 24 port Ethernet auto-negotiating switch supports IP stacking making management a simple task.
- The expansion slot supports interface modules that can connect to Gigabit or 100Base-FX fibre interfaces.
- 10/100Mbit/s auto-negotiating smart switch is ideal for connecting larger size workgroups over a fibre Ethernet link.
- Auto negotiating determines both the data rate and whether full or half duplex operation is required.
- Optional 100Mbit/s or 2 x 1000Mbit/s fibre or copper uplink module and dedicated management support through the console, this high quality switch delivers the power, flexibility and performance that is expected.

Part No:	Description:
<b>SW-0-1591093-X</b>	24 Port S/UTP 10/100M Smart Switch II
<b>SW-0-1591094-0</b>	SC Multimode Fibre Plug-In Option Module
<b>SW-0-1591095-0</b>	ST Multimode Fibre Plug-In Option Module
<b>SW-0-1591096-0</b>	SC Singlemode Fibre Plug-In Option Module
<b>SW-0-1591097-0</b>	Dual SC Gigabit Multimode SX Option Module
<b>SW-0-1591098-0</b>	Dual SC Gigabit Singlemode LX Option Module
<b>SW-2-1591019-0</b>	Dual Gigabit Copper 1000BaseT Option Module

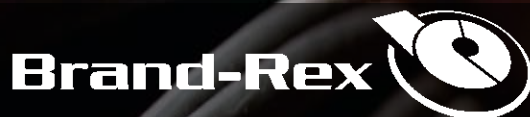
## ➤ 24 PORT STACKABLE MANAGED SWITCH WITH DUAL PORT EXPANSION SLOT



- 10/100Mbit/s 24 port Ethernet auto-negotiating switch supports IP stacking making management a simple task.
- The expansion slot supports interface modules that can connect to Gigabit or 100Base-FX fibre interfaces.
- Easy to install.
- Switch offers a very high performance, scalable solution for distributed workgroups.
- 19" brackets are included.

Part No:	Description:
<b>SW-0-1591099-X</b>	24 Port Stackable Managed Switch
<b>SW-0-1591094-0</b>	100Fx SC Multimode Fibre Plug-In Option Module
<b>SW-0-1591095-0</b>	100Fx ST Multimode Fibre Plug-In Option Module
<b>SW-0-1591096-0</b>	100Fx SC Singlemode Fibre Plug-In Option Module
<b>SW-0-1591097-0</b>	Dual Gigabit Multimode Sx Plug-In Option Module
<b>SW-0-1591098-0</b>	Dual Gigabit Singlemode Lx Plug-In Option Module
<b>SW-2-1591019-0</b>	Dual Gigabit Copper 1000BaseT Plug-In Option Module





Brand-Rex is the UK's number one provider of structured cabling systems. Networks Centre is proud to be one of their premier distributors and stocks their complete copper and optical cabling systems; as well as their range of racks, cabinets and cable management.



GIGAPLUS

CAT6PLUS

10GPLUS

FIBREPLUS

BLOLITE

DATACENTRE

SMARTPATCH

U-MEDIAPLUS

➤ GigaPlus	66
➤ Cat6Plus	69
➤ 10GPlus	72
➤ System Accessories	74
➤ Copper Patchcords & Pigtails	76
➤ Fibre Optic Patchcords & Pigtails	77
➤ Fibre Optic Connectors	78
➤ Fibre Optic Adaptors	79
➤ Optical Patch Panels	81
➤ Unloaded Optical Patch Panels	81
➤ Fibre Optic Cable	82
➤ Blolite Air Blown Fibre System	84
➤ FibrePlus	86
➤ Optical MPO Solution	87
➤ Datacentre Cabinets & Racks	88

## ► SHIELDED CABLE



GigaPlus F/UTP 100  $\Omega$  4x2xAWG 24/1 premium grade class D/Cat5e cable to support Gigabit Ethernet protocol combined with good EMI/RFI protection for installations in horizontal and backbone areas.

The cable is compliant with: ISO/IEC 61156-5, EN 50288-2-1 and ANSI/TIA/EIA 568C.

Part No:	Description:
<b>BR-GPF-HF1-RLX-305VT</b>	GigaPlus 24 AWG F/UTP 4 Pair LSHF IEC 60332-1-2 Sheathed, Violet RAL 4005 Cable

## ► UNSHIELDED CABLE

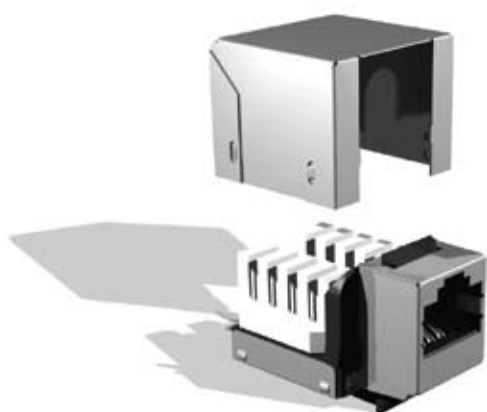


GigaPlus U/UTP 100  $\Omega$  4x2xAWG 24/1 premium grade Class D/Cat5e cable to support Gigabit Ethernet protocol for installation in horizontal and backbone areas.

The cable is compliant with: ISO/IEC 61156-5, EN 50288-3-1 and ANSI/TIA/EIA 568C.

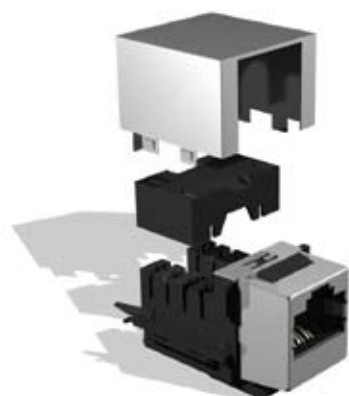
Part No:	Description:
<b>BR-GPU-HF1-RLX-305VT</b>	GigaPlus 24 AWG U/UTP 4 Pair LSHF IEC60332-1-2 Sheathed, Violet RAL 4005 Cable
<b>BR-GPU-HF1-X-1000BK</b>	GigaPlus 24AWG U/UTP 4 pair LSHF/PE outdoor grade cable

## ► SHIELDED JACKS



GigaPlus Shielded Snap-In-Jacks offer true Category 5e component performance. The jacks are backward compatible and also fully compatible with all Brand-Rex's UK and Continental style faceplates and products. Each jack is supplied with a short form installation instruction and cable tie.

Part No:	Description:
<b>BR-GPCJAKF0K2</b>	GigaPlus Snap-In-Jack Screened LSA IDC Universal wiring, Black
<b>BR-GPCJAKF012</b>	GigaPlus Snap-In-Jack Screened 110 IDC Universal wiring, Black



GigaPlus Shielded Snap-In-Jacks offer true Category 5e component performance. The jack is backward compatible and also fully compatible with all Brand-Rex's UK and Continental style faceplates and products. Each jack is supplied with a short form installation instruction and stuffer cap.

Part No:	Description:
<b>BR-GPCJAKF013LF</b>	GigaPlus Lead Frame Snap-In-Jack Screened 110 IDC 568A/B





## ► UNSHIELDED JACKS



The Tool-free Jack offers true Cat5e performance and is fully compatible with Brand-Rex UK and continental UNI style faceplates and products. The jacks come supplied in boxes of 12; termination instructions are on the rear of the box. No termination tool is required. Each jack has integral colour code wiring labels.

Part No:	Description:
<b>BR-GPCJAKU002</b>	GigaPlus Snap-In-Jack Unscreended - Tool Free



GigaPlus Shielded and Unshielded Snap-In-Jacks offer true Category 5e component performance. The jack is backward compatible and also fully compatible with all Brand-Rex's UK and Continental style faceplates and products. Each jack is supplied with a short form installation instruction and stuffer cap.

Part No:	Description:
<b>BR-GPCJAKU013LF</b>	GigaPlus Lead Frame Snap-In-Jack Unscreended 110 IDC 568B Wired, White



GigaPlus Slimline Shuttered Modules offer true Category 5e component performance and are fully compatible with Brand-Rex UK and continental UNI style faceplates and products, and are suitable for applications where internal back box space is limited. Each jack is supplied with a shortform installation instruction and a cable tie to attach the cable to the cable anchor. Modules are supplied with a colour code wiring label.

Part No:	Description:
<b>BR-GPCSL062UB02</b>	GigaPlus 50x25 Slimline Shuttered Module - Unshielded, Black
<b>BR-GPCSL062UB03</b>	GigaPlus 50x25 Slimline Shuttered Module - Unshielded, White
<b>BR-GPCSL06CUB02</b>	GigaPlus 38x25 Slimline Shuttered Module - Unshielded, Black
<b>BR-GPCSL06CUB03</b>	GigaPlus 38x25 Slimline Shuttered Module - Unshielded, White
<b>BR-GPCSLA62UB02</b>	GigaPlus 50x25 Angled Slimline Shuttered Module - Unshielded, Black
<b>BR-GPCSLA62UB03</b>	GigaPlus 50x25 Angled Slimline Shuttered Module - Unshielded, White



GigaPlus Unshielded Snap-In-Jacks offer true Category 5e component performance. The jacks are backward compatible and also fully compatible with all Brand-Rex's UK and Continental style faceplates and products. Each jack is supplied with a short form installation instruction and cable tie.

Part No:	Description:
<b>BR-GPCJAKU012</b>	GigaPlus Snap-In-Jack Unscreended 110 IDC Universal wiring, Black
<b>BR-GPCJAKU013</b>	GigaPlus Snap-In-Jack Unscreended 110 IDC Universal wiring, White
<b>BR-GPCJAKU0K2</b>	GigaPlus Snap-In-Jack Unscreended LSA IDC Universal wiring, Black
<b>BR-GPCJAKU0K3</b>	GigaPlus Snap-In-Jack Unscreended LSA IDC Universal wiring, White

\* **Shielded versions available, call for more information.**

## ► SHIELDED PATCH PANELS



The GigaPlus 19" rack mounted patch panel offers true Category 5e component performance using patented state of the art printed circuit technology. Available in 24 port versions, these panels have a cable management / strain relief feature built into the rear mounted grounding bar. All outlets are numerically identified with an additional writable surface for ease of port naming. Each panel is supplied with cable ties, panel mounting accessories and short form installation instructions.

Part No:	Description:
<b>BR-GPCPNLF24012M</b>	GigaPlus 24 Port Screened Patch Panel 1U 110 IDC Universal wiring, Black
<b>BR-GPCPNLF240K2M</b>	GigaPlus 24 Port Screened Patch Panel 1U LSA IDC Universal wiring, Black

## ► UNSHIELDED PATCH PANELS



The GigaPlus 19" rack mounted patch panel offers true Category 5e component performance using patented state of the art printed circuit technology. All outlets are numerically identified with an additional writable surface for ease of port naming. Each panel is supplied with cable ties, panel mounting accessories and short form installation instructions.

Part No:	Description:
<b>BR-GPCPNLU24002</b>	GigaPlus 24 Port Unscreened Patch Panel 1U Universal punchdown and wiring, Black
<b>BR-GPCPNLU48002</b>	GigaPlus 48 Port Unscreened Patch Panel 2U Universal punchdown and wiring, Black

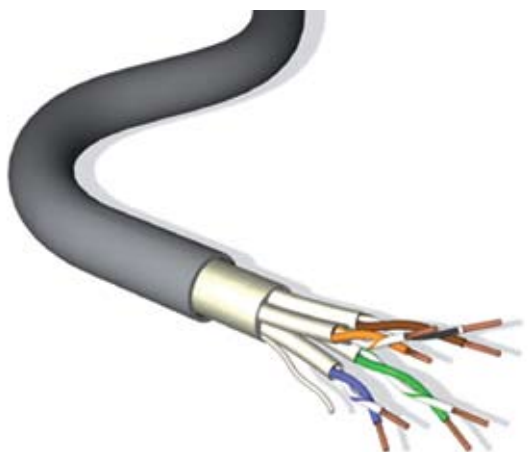


The GigaPlus 19" rack mounted patch panel offers true Category 5e component performance using patented state of the art printed circuit technology. Available in 24 port versions, these panel have a cable management/strain relief feature built into the rear mounted grounding bar. All outlets are numerically identified with an additional writable surface for ease of port naming. Each panel is supplied with cable ties, panel mounting accessories and short form installation instructions.

Part No:	Description:
<b>BR-GPCPNLU24012M</b>	GigaPlus 24 Port Unscreened Patch Panel 1U 110 IDC Universal wiring with Cable Management, Black
<b>BR-GPCPNLU240K2M</b>	GigaPlus 24 Port Unscreened Patch Panel 1U LSA IDC Universal wiring with Cable Management, Black



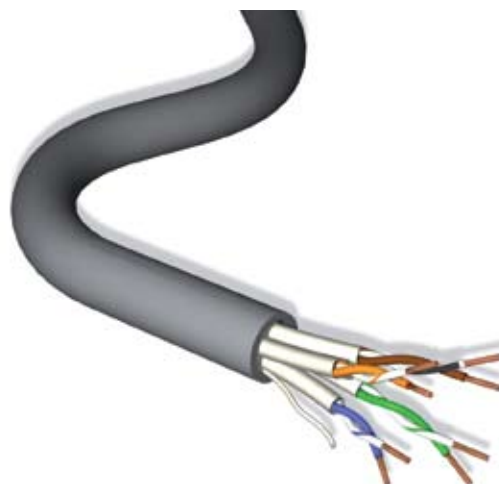
## ► SHIELDED CABLE



Cat6Plus F/FTP, 100  $\Omega$  4x2xAWG 23/1 premium grade class E/Cat6 cable to support Gigabit ethernet protocol for installation in horizontal and backbone areas.

The cable is compliant with: ISO/IEC 11801, ANSI/EIA/TIA 568C ISO/IEC 61156-5 and EN 50288-5-1.

Part No:	Description:
<b>BR-C6F-FTP-HF1-500VT</b>	Cat6Plus 23 AWG F/FTP 4 Pair LSHF IEC 60332-1-2 Sheathed, Violet RAL 4005 Cable

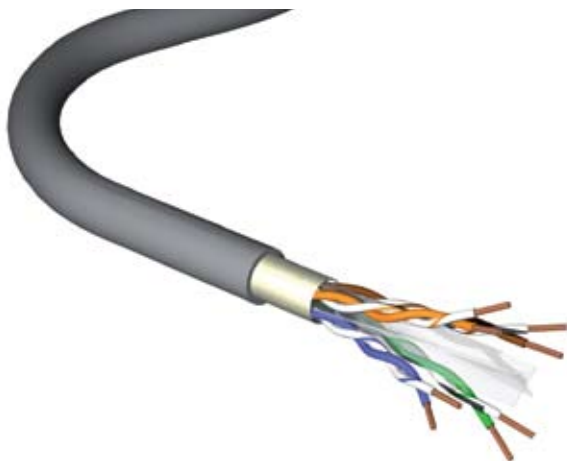


Cat6Plus U/FTP 100  $\Omega$  4x2xAWG 23/1 premium grade class E/Cat6 cable to support Gigabit Ethernet protocol for installation in horizontal and backbone areas.

The cable is compliant with: ISO/IEC 61156-5, EN 50288-5-1 and ANSI/TIA/EIA 568C.

Part No:	Description:
<b>BR-C6U-FTP-HF1-500VT</b>	Cat6Plus 23 AWG U/FTP 4 Pair LSHF IEC 60332-1-2 Sheathed, Violet RAL 4005 Cable

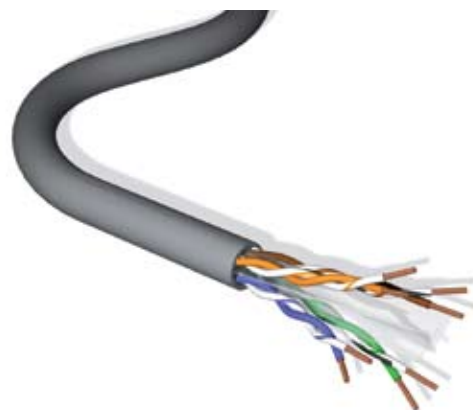
## ► UNSHIELDED CABLE



Cat6Plus F/UTP, 100  $\Omega$  4x2xAWG 23/1 premium grade Class E/Cat6 cable to support Gigabit Ethernet protocol for installation in horizontal and backbone areas, PoE, PoEP and broadband video transmissions at frequencies as high as 550MHz.

The cable is compliant with: ISO/IEC 11801, EN50173-1, ANSI/EIA/TIA 568C series, ISO/IEC 60332-1-2 and EN 50288-5-1.

Part No:	Description:
<b>BR-C6F-UTP-HF1-500VT</b>	500m Violet Cat6Plus 23 AWG F-UTP 4 pair LSF-OH IEC 332.1 Sheathed, Violet RAL 4005 Cable LSOH

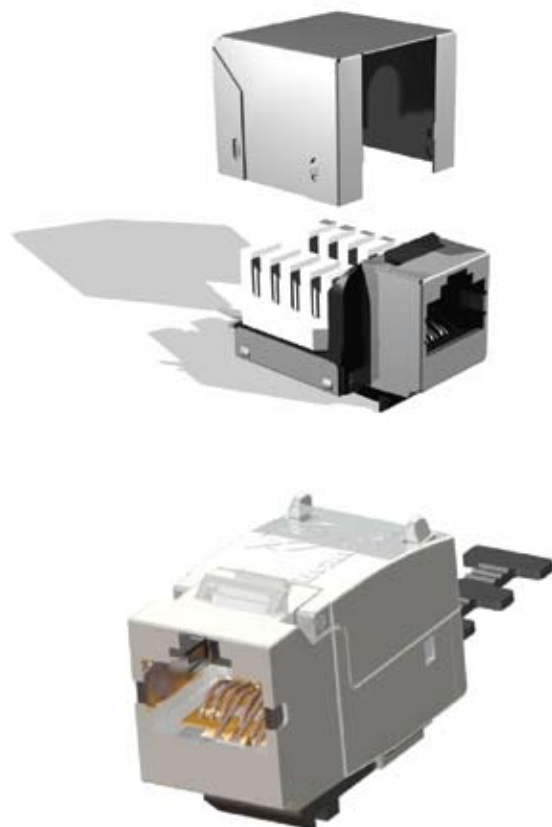


Cat6Plus U/UTP 100  $\Omega$  4x2xAWG 23/1 premium grade class E/Cat6 cable to support Gigabit Ethernet protocol for installation in horizontal and backbone areas.

The cable is compliant with: ISO/IEC 61156-5, EN 50288-6-1 and ANSI/TIA/EIA 568C.

Part No:	Description:
<b>BR-C6U-HF1-RLX-305VT</b>	Cat6Plus 23 AWG U/UTP 4 Pair LSHF IEC 60332-1-2 Sheathed, Violet RAL 4005 Cable
<b>BR-C6U-HF1-500VT</b>	Cat6Plus 23 AWG U/UTP 4 Pair LSHF IEC 60332-1-2 Sheathed, Violet RAL 4005 Cable
<b>BR-C6U-HF1-X-500BK</b>	Cat6Plus 23 AWG U/UTP 4 Pair Sheathed, Polyethylene Outer Sheathed, External Cable

## ► SHIELDED JACKS



The Brand-Rex Cat6Plus Screened Snap-In-Jack offers true Category 6 component performance using a new patented contact array design. The jack is backward compatible and also fully compatible with all Brand-Rex's UK and continental style faceplates and products. Jacks are supplied with a short form installation instruction.

Part No:	Description:
<b>BR-C6CJAKF0K2</b>	Cat6Plus Snap-In-Jack Screened LSA universal wired IDC, Black

The Cat6Plus Shielded Tool-free Snap-in-Jack is easy and quick to install, its compact construction and multiple cable-entry options make it the most flexible product of its type available. It is smaller and shorter than traditional products, allowing it to fit more comfortably into confined spaces. The jack also features an adjustable management element allowing for a rear, top or side-entry cable termination. Designed for use in all structured cabling environments including the general office and datacentres, the jack can be installed in patch panels, wall outlets and floor box modules to provide a robust and versatile solution. The Cat6Plus system is a Category 6 and Class E solution set that is fully backwards compatible to Cat5e (Class D) products. The jack is fully compatible with all Brand-Rex's UK and Continental style faceplates and patch panel products.

Part No:	Description:
<b>BR-C6CJAKS000</b>	Cat6Plus Snap-In-Jack Screened - Tool Free

## ► UNSHIELDED JACKS



The Tool-free Jack offers true Cat6 performance and is fully compatible with Brand-Rex UK and continental UNI style faceplates and products. The jacks come supplied in boxes of 12; termination instructions are on the rear of the box. No termination tool is required. Each jack has integral colour code wiring labels.

Part No:	Description:
<b>BR-C6CJAKU002</b>	Cat6Plus Snap-In-Jack Unscreened - Tool Free

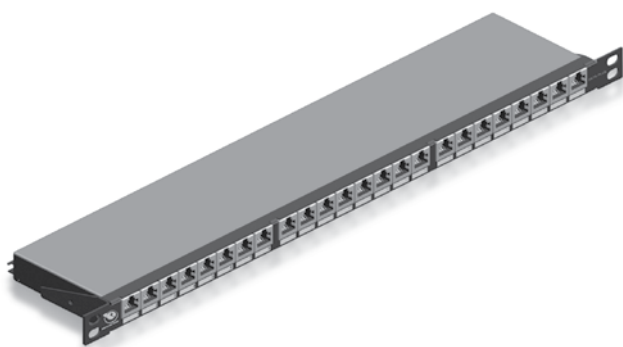
The Brand-Rex Cat6Plus Snap-In-Jack offers true Category 6 component performance using a new patented contact array design. The jack is backward compatible and also fully compatible with all Brand-Rex's UK and continental style faceplates and products. Jacks are supplied with a short form installation instruction.

Part No:	Description:
<b>BR-C6CJAKU012</b>	Cat6Plus Snap-In-Jack Unscreened 110 IDC, Black
<b>BR-C6CJAKU013</b>	Cat6Plus Snap-In-Jack Unscreened 110 IDC, White
<b>BR-C6CJAKU0K2</b>	Cat6Plus Snap-In-Jack Unscreened LSA IDC, Black
<b>BR-C6CJAKU0K3</b>	Cat6Plus Snap-In-Jack Unscreened LSA IDC, White





## ► SHIELDED PANELS



The Cat6Plus 19" rack mounted 0.5U 24 port Shielded patch panel offers a port density which delivers 48 terminations in a single U height with true Category 6 component performance using a patented contact pin array design. The robust and easy to install patch panel employs a conventional termination method that affords the installer the maximum punch down accessibility for wire termination. To assure the optimum link performance the panel has been designed with integral rear cable management which provides easy routing and strain relief for the high performance cabling. This shielded version of the 0.5U patch panel introduces shielded mounting clips to ensure optimum earthing of the cable screens.

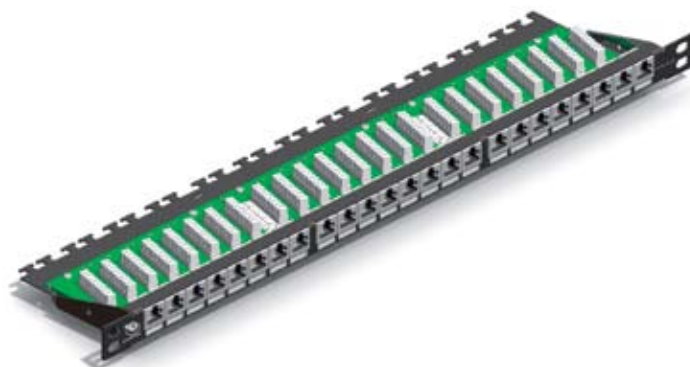
Part No:	Description:
<b>BR-C6CPNLF240K2H</b>	Cat6Plus 0.5U 24 Port Screened Patch Panel LSA IDC 568A/B Wired Black with cable management



The Cat6Plus 19" rack mounted patch panel offers true Category 6 component performance using a new patented contact pin array design. All panels are backward compatible. The modular jacks that are used in blocks of 8 are individually shielded to give superior shielding. In addition to this, each panel has been designed with a cable management/strain relief feature built into the rear. All outlets are numerically identified with an additional writable surface for ease of port naming. Each panel is supplied with cable ties, panel mounting accessories and short form installation instructions.

Part No:	Description:
<b>BR-C6CPNLF240K2M</b>	Cat6Plus 24 Port Screened Patch Panel 1U LSA IDC 568A/B Wired Black with cable management

## ► UNSHIELDED PANELS



The Cat6Plus 19" rack mounted 0.5U patch panel offers true Category 6 component performance using a new patented contact pin array design. All panels are backward compatible. In addition to this, each panel has been designed with a cable management/strain relief feature built into the rear. All outlets are numerically identified with an additional writable surface for ease of port naming. Each panel is supplied with cable ties, panel mounting accessories and short form installation instructions.

Part No:	Description:
<b>BR-C6CPLNLU240K2H</b>	0.5U Cat6Plus 24 Port Unscreened Patch Panel LSA IDC 568A/B Wired Black with cable management.



The Cat6Plus 19" rack mounted patch panel offers true Category 6 component performance using a new patented contact pin array design. All panels are backward compatible. In addition to this, each panel has been designed with a cable management/strain relief feature built into the rear. All outlets are numerically identified with an additional writable surface for ease of port naming. Each panel is supplied with cable ties, panel mounting accessories and short form installation instructions.

Part No:	Description:
<b>BR-C6UCPNLU24012M</b>	Cat6Plus 24 Port Unscreened Patch Panel 1U 110 IDC 568A/B Wired Black with cable management
<b>BR-C6UCPNLU240K2M</b>	Cat6Plus 24 Port Unscreened Patch Panel 1U LSA IDC 568A/B Wired Black with cable management

## ► SHIELDED CABLE



10GPlus S/FTP 100 Ω, 4x2xAWG 23/1 is a premium grade class EA/ Augmented category 6 Cable to support 10 Gigabit Ethernet protocol for installation in horizontal and backbone areas.

The cable is compliant with: ISO 61156-5 and ANSI/TIA/EIA and EN50288-10-1.

Part No:	Description:
<b>BR-AC6S-FTP-HF1-500VT</b>	10GPlus 23 AWG S/FTP 4 Pair LSHF IEC 60332-1-2 Sheathed, Violet RAL 4005 cable



10GPlus F/FTP 100 Ω, 4x2xAWG 23/1 is a premium grade class EA/ Augmented category 6 Cable to support 10 Gigabit Ethernet protocol for installation in horizontal and backbone areas.

The cable is compliant with: ISO 61156-5 ANSI/TIA/EIA 568C and EN50288-10-1 standards when it is published. These cables are also fully backwards compatible with Category 5 and Category 6 systems.

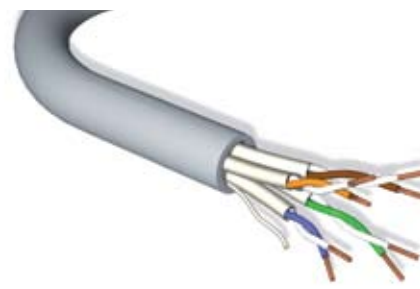
Part No:	Description:
<b>BR-AC6F-FTP-HF1-500VT</b>	10GPlus 23 AWG F/FTP 4 Pair LSHF IEC 60332-1-2 Sheathed, Violet RAL 4005 cable



10GPlus U/FTP, 4x2, 100 Ω AWG2311 is a premium grade class EA/ Augmented Category 6 cable to support 10 Gigabit Ethernet protocol for installation in horizontal and backbone applications.

The cable is compliant with: ISO 61156-6 ed 2, ANSI/TIA/EIA568C. It is also designed to be compliant with EN50288-10-2.

Part No:	Description:
<b>BR-AC6U-FTP-HF1-500VT</b>	10GPlus 23AWG A/FTP 4 Pair LSHF IEC 60332-1-2 Sheathed Violet RAL4005 cable



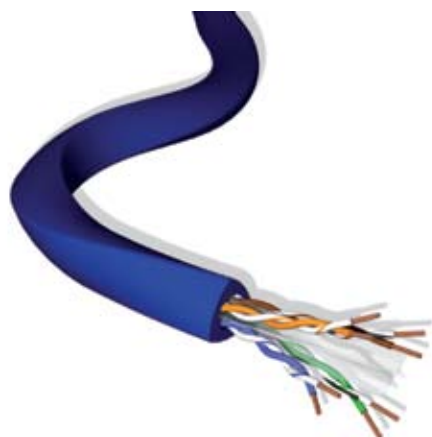
10GPlus U/FTP, 100 Ω, 4x2xAWG 26/1 is a premium grade Class EA/ Augmented Category 6 cable to support 10 Gigabit Ethernet protocol for use within the datacentre environment.

The cable is compliant with: ISO 61156-6 ed 2, ANSI/TIA/EIA568C. It is also designed to be compliant with EN50288-10-2.

Part No:	Description:
<b>BR-AC6-DCZ-500VT</b>	500m 10GPlus U-FTP 4 Pair LSF-OH IEC 60332-1-2 Sheathed, Violet Ral 4005 small diameter cable

\*Maximum operational length 70 metres.

## ► UNSHIELDED CABLE



10GPlus U/UTP 100 Ω, 4x2, AWG23/1 is a premium grade class EA/ Augmented Category 6 cable to support 10 Gigabit Ethernet protocol for installation in horizontal and backbone applications.

The cable is compliant with: ISO 61156-5, ANSI/TIA/EIA 568C and the draft standard EN 50288-11-1. The cable is fully backwards compatible with Category 5 and Category 6 systems.

Part No:	Description:
<b>BR-AC6U-HF1-1000VT</b>	10GPlus 23 AWG U-UTP 4 pair LSHF IEC 60332-1-2 Sheathed, Violet RAL 4005 cable
<b>BR-AC6U-HF1-500VT</b>	10GPlus 23 AWG U-UTP 4 pair LSHF IEC 60332-1-2 Sheathed, Violet RAL 4005 cable



## ► SHIELDED JACKS



The 10GPlus Shielded Tool-free Snap-in-Jack is easy and quick to install, its compact construction and multiple cable-entry options make it the most flexible product of its type available. It is smaller and shorter than traditional products, allowing it to fit more comfortably into confined spaces. The jack also features an adjustable management element allowing for a rear, top or side-entry cable termination. Designed for use in all structured cabling environments including the general office and datacentres, the jack can be installed in patch panels, wall outlets and floor box modules to provide a robust and versatile solution.

The 10GPlus system is an Augmented Category 6 and Class EA solution set that is fully backwards compatible to Cat6 (Class E) and Cat5e (Class D) products. The jack is fully compatible with all Brand-Rex's UK and Continental style faceplates and patch panel product.

Part No:	Description:
<b>BR-AC6JAKS000</b>	10GPlus Snap-In-Jack Screened - Tool Free



The Brand-Rex 10GPlus shielded Snap-In-Jack offers true Class EA component performance using a patented contact array design. The 10GPlus system is classified as an Augmented Category 6 and Class EA product set that is fully backwards compatible to Category 6 (Class E) and Category 5e (Class D) products. The jack is also fully compatible with all Brand-Rex's UK and Continental style faceplates and products.

Part No:	Description:
<b>BR-AC6JAKF0K2</b>	10GPlus Snap-In-Jack Screened LSA universal wired IDC, Black

## ► UNSHIELDED JACKS



When used within a channel the tool-free jack provides an industry leading electrical performance and is fully compatible with Brand-Rex UK and continental UNI style faceplates and products. The jacks come supplied in boxes of 12; termination instructions are on the rear of the box. No termination tool is required. Each jack has integral colour code wiring labels.

Part No:	Description:
<b>BR-AC6JAKU002</b>	10GPlus Snap-In-Jack Unscreened - Tool Free



The Brand-Rex 10GPlus Snap-In-Jack offers true Class EA component performance using a patented contact array design. The 10GPlus system is classified as an Augmented Category 6 and Class EA product set that is fully backwards compatible to Category 6 (Class E) and Category 5e (Class D) products. The jack is also fully compatible with all Brand-Rex's UK and Continental style faceplates and products.

Part No:	Description:
<b>BR-AC6JAKU0K2</b>	10GPlus Snap-In-Jack Unscreened LSA IDC, Black
<b>BR-AC6JAKU0K3</b>	10GPlus Snap-In-Jack Unscreened LSA IDC, White

# SYSTEM ACCESSORIES

## ▶ MODULAR PANELS



The Brand-Rex Angled Snap-in-Jack Patch Panel is a 1U 24 Port Panel that facilitates cord routing directly into the rack vertical side management thus rendering horizontal cable managers redundant. The increased rack density not only saves valuable space but also offers a panel that eases bending stresses on the cord while maximising performance. The design accommodates a separate rear cable manager to provide a strain relief feature for the simple routing of horizontal cabling and also allows for colour coded labelling.

Part No:	Description:
<b>BR-MMCPNLX24SIJ2MAN</b>	1U SIJ angled panel with management suitable for up to 24 snap-in-jacks, black



The Brand-Rex 19" Modular Panel is a rack mounted Snap-In-Jack panel that has been designed with a double skin to provide flush mounted jacks. The rear of the panel has been plated for grounding to the chassis on shielded systems. All outlets are numerically identified with an additional writable surface for ease of port naming.

Part No:	Description:
<b>BR-MMCPNLX16SIJ2</b>	16 Port Modular Snap-In-Jack Panel - Black
<b>BR-MMCPNLX16SIJ8</b>	16 Port Modular Snap-In-Jack Panel - Grey
<b>BR-MMCPNLX24SIJ2</b>	24 Port Modular Snap-In-Jack Panel - Black
<b>BR-MMCPNLX24SIJ8</b>	24 Port Modular Snap-In-Jack Panel - Grey
<b>BR-MMCPNLX32SIJ2</b>	32 Port Modular Snap-In-Jack Panel - Black
<b>BR-MMCPNLX32SIJ8</b>	32 Port Modular Snap-In-Jack Panel - Grey
<b>BR-MMCPNLX48SIJ2</b>	48 Port Modular Snap-In-Jack Panel - Black
<b>BR-MMCPNLX48SIJ8</b>	48 Port Modular Snap-In-Jack Panel - Grey



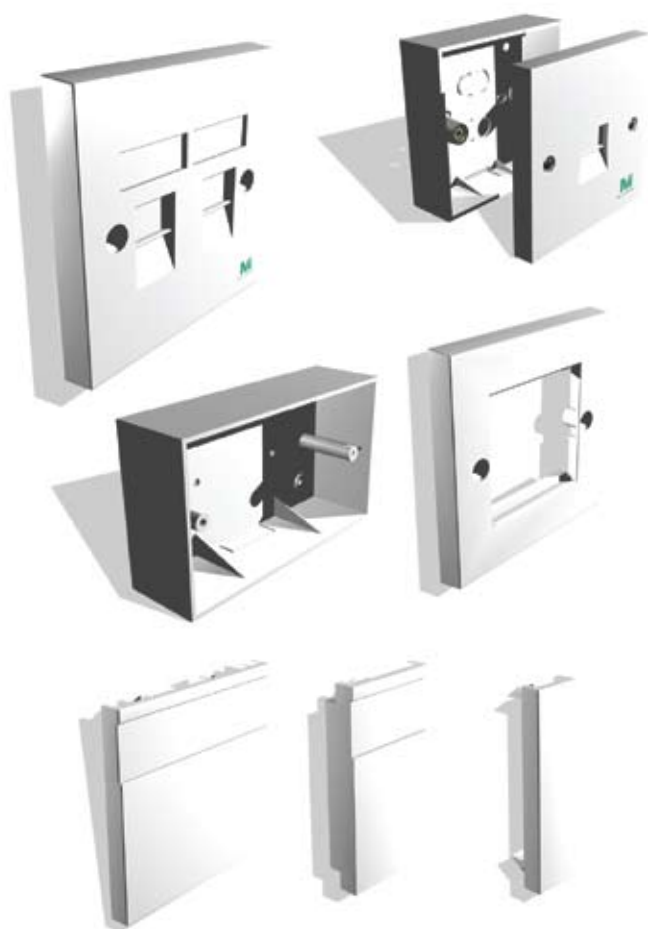
The Brand-Rex 19" Snap-in-Jack Patch Panel that accommodates 24 ports within a 1U configuration and provides coloured inserts for individual port/service identification. The product is designed and supplied with a detachable rear cable manager and comes complete with black inserts already loaded into the panel as standard. Optional coloured inserts are available for purchase separately in a variety of colours allowing for individual port/service identification.

Part No:	Description:
<b>BR-MMCPNLX24SIJ2CII</b>	1U SIJ colour coded inline panel with management suitable for up to 24 snap-in-jacks, black
<b>BR-MMCACCINS1</b>	Insert - red
<b>BR-MMCACCINS2</b>	Insert - black
<b>BR-MMCACCINS3</b>	Insert - white
<b>BR-MMCACCINS4</b>	Insert - blue
<b>BR-MMCACCINS5</b>	Insert - green
<b>BR-MMCACCINS6</b>	Insert - yellow
<b>BR-MMCAJAKBLK2</b>	Snap-in-jack blank - black
<b>BR-MMCAJAKBLK3</b>	Snap-in-jack blank - white
<b>BR-MMCIRT001</b>	Retraction tool





## ► FACE PLATES



Brand-Rex supplies a comprehensive range of plastic accessories to provide an outlet solution for wall, trunking and floorbox applications. These accessories have been designed to be used in conjunction with Brand-Rex Snap-In Jacks. All UK style faceplates are supplied with M3.5 mounting screws and are available in both modular or low cost shuttered versions. Backboxes can also be supplied to allow for retrofit application where outlets are required to be surface mounted.

Floorbox modules and blanks have been designed to clip into a 1.0 - 2.0mm thick plate with a standard 22 x 37mm floorbox cut-out.

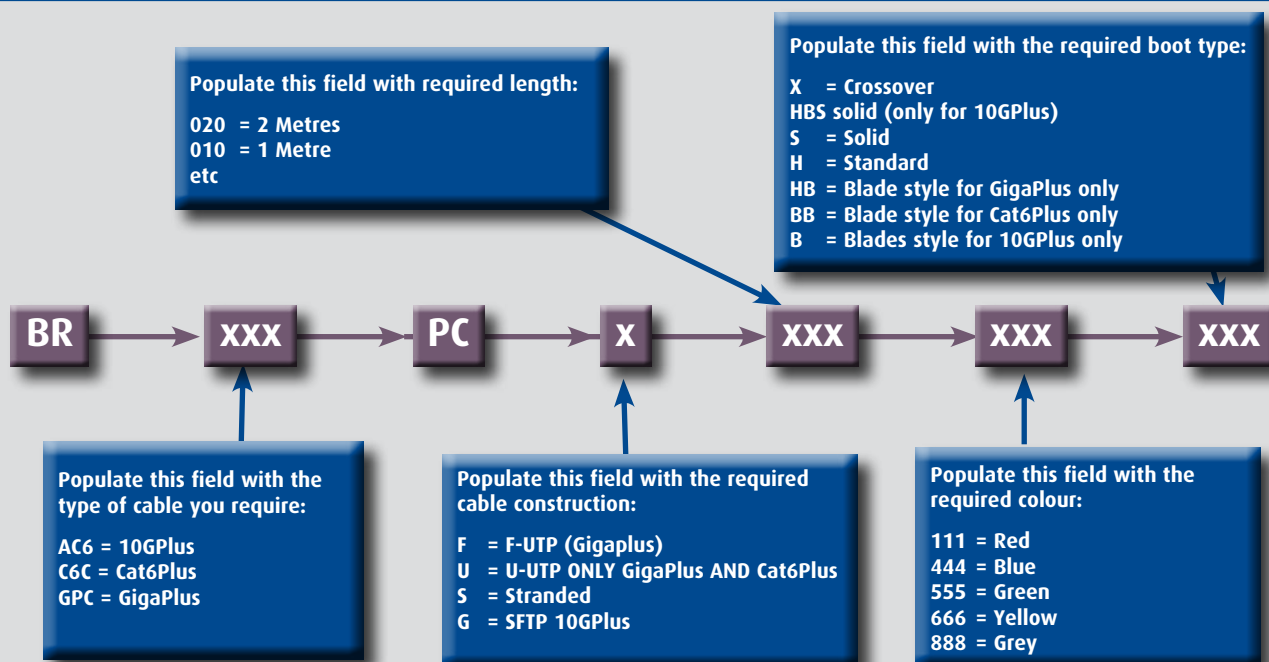
Part No:	Description:
<b>BR-MMCANGDK2453</b>	Dual Snap-In-Jack Faceplate Module - RAL9010
<b>BR-MMCDGBB32001</b>	32mm Double Gang Back Box
<b>BR-MMCDGBB44001</b>	44mm Double Gang Back Box
<b>BR-MMCSGGB32001</b>	32mm Single Gang Back Box
<b>BR-MMCSGGB44001</b>	44mm Single Gang Back Box
<b>BR-MMCWDOUNI030</b>	86mm x 86mm Single Gang UK Style Faceplate White
<b>BR-MMCWDOUNI031</b>	86mm x 147mm Double Gang UK Style Faceplate White
<b>BR-MMCWDOUNI040</b>	Double Width Blank Indented White
<b>BR-MMCWDOUNI042</b>	Single Width Blank Indented White
<b>BR-MMCWDOUNI052</b>	Half Width Blank Plain White

## ► MODULES



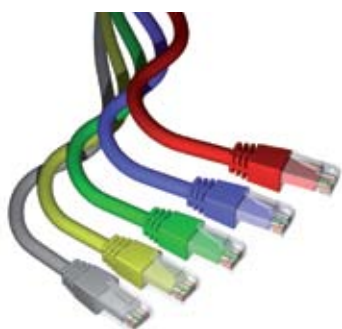
Part No:	Description:
<b>BR-MMCANG0623</b>	50mm x 25mm Shuttered Angled Module White
<b>BR-MMCANG06C3</b>	38mm x 25mm 6C Shuttered Angled Module White
<b>BR-MMCBK06C3</b>	38mm x 25mm 6C Blank Module White
<b>BR-MMCWDO06C001</b>	38mm x 25mm 6C Shuttered Module White
<b>BR-MMCWDOUNI062</b>	25mm x 50mm Shuttered Module White
<b>BR-MMCWDOUNI070</b>	86mm x 86mm Single Gang Faceplate with Intergrated Shutter 1 x RJ45 White
<b>BR-MMCWDOUNI071</b>	86mm x 86mm Single Gang Faceplate with Intergrated Shutter 2 x RJ45 White

## HOW TO CREATE OUR BRAND-REX COPPER PATCHCORDS PART NUMBERS



Eg: BR-GPCPCU030-888HB = GIGAPLUS 24 AWG U-UTP STRANDED BLADE LS-OH PATCH LEAD 3M GREY

### > CAT6PLUS



Brand-Rex Cat6Plus patchcords enable you to get the optimum performance from your cabling system. Brand-Rex's factory made and tested patchcords offer you guaranteed quality and ensure that your system avoids the performance degradation which inferior alternatives will give you at high data rates. All patchcords are supplied with boots and ID tags. Independent 3rd Party Certification (3P).

### > GIGAPLUS



Brand-Rex GigaPlus patchcords enable you to get the optimum performance from your cabling system. Brand-Rex's factory made and tested patchcords offer you guaranteed quality and ensure that your system avoids the performance degradation that inferior alternatives will give you at high data rates. All patchcords are supplied with boots and ID tags. Independent 3rd Party Certification (3P).

### > 10GPLUS



The Brand-Rex Augmented Category 6 patchcord is part of the Brand-Rex 10GPlus cabling system. The 10GPlus cabling system is comprised of high performance cables and connectivity which not only provides a reliable platform for all of today's network applications, but is also designed to future-proof networks for the emerging, new higher speed protocols of tomorrow, such as 10GBASE-T. The 10GPlus system is classified as an Augmented Category 6 and Class EA product set that is fully backward compatible to Category 6 (Class E) and Category 5e (Class D) products.

#### Packaging:

- > Individually packed in branded easy tear bags.
- > Individually bagged parts, bulk packed in bags of 10 for standard stranded cords.



Can't find what you're looking for? Then contact us...

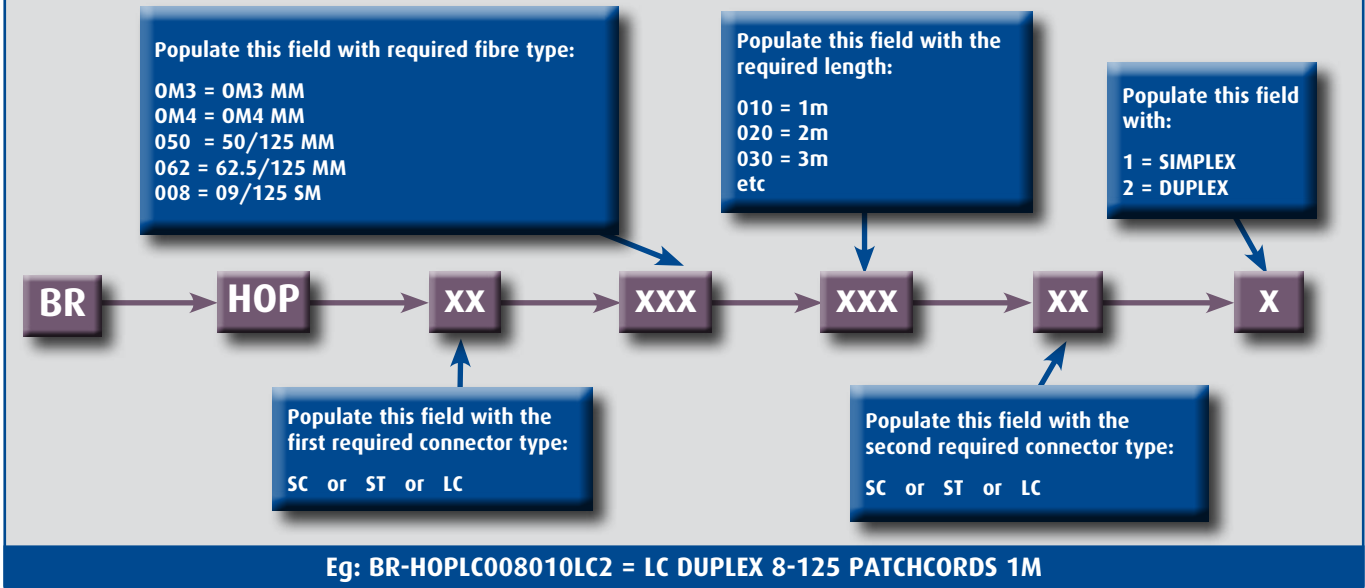
# FIBRE OPTIC PATCHCORDS & PIGTAILS



For use in permanent connections between transmission equipment and patch panels or interconnect / cross-connect between panels. Patchcords are pre-constructed with connectors. These include small form factors such as LC and MTRJ as well as SC, FC and ST. Based on 2.80mm sub units (1.9mm SFF) these ruggedised cables are sheathed with LSHF material making them suitable for internal use.

- Manufactured to comply with: ISO/IEC 11801, EN50173 -1, ANSI TIA/EIA 568B.
- All major connector types, various colours available.
- Colour coded for identification.
- Duplex patchcords feature 'Crossover'.

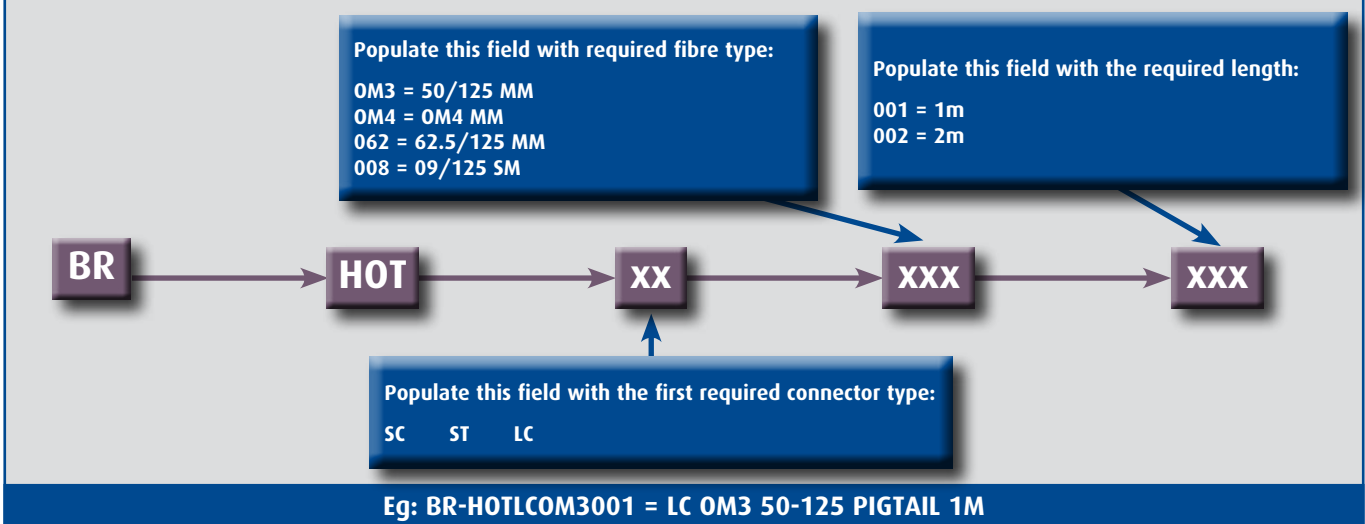
## HOW TO CREATE OUR BRAND-REX FIBRE OPTIC PATCHCORDS PART NUMBERS



For use in permanent connections between patch panels and incoming cables / single blown fibres. Connector options include small form factors such as LC and MTRJ as well as SC, FC and ST. Based on 900µm tight buffered cores (600µm MTRJ) and suitable for internal use only inside suitable Fibre Management Systems.

- Manufactured to comply with: ISO/IEC 11801, EN50173 -1, ANSI TIA/EIA 568B.
- Based on Tight Buffered Core.
- 900µm and 600µm.
- All major connector types.
- All major fibre types.

## HOW TO CREATE OUR BRAND-REX FIBRE OPTIC PIGTAILS PART NUMBERS



# FIBRE OPTIC CONNECTORS



## > FC-PC CONNECTOR



FC-PC singlemode connector kits comprise of a nickel plated brass body with a precision ceramic ferrule, stepped crimp sleeve, 2 x colour coded strain relief boots and a 0.9mm boot.

- > Compliant with IEC 60874-7
- > Strain Relief Colour Code: SM - Yellow, Black
- > Typical Insertion Loss: SM - 0.15dB
- > Minimum Return Loss: SM 45dB

Part No:	Description:
<b>BR-FOCFCEPSM001</b>	FC Singlemode Connector with zirconia ferrule

## > LC CONNECTOR



LC multimode and singlemode connector kits comprise of a precision ferrule, crimp sleeve, colour coded outer shroud, 2 x colour coded 2.0mm strain reliefs (..001) or a 0.9mm (..002) boot.

- > Typical Insertion Loss: MM - <0.2dB, SM - <0.15dB
- > Minimum Return Loss: MM 20dB, SM 45dB
- > Available as either simplex or duplex variants.

Part No:	Description:
<b>BR-FOCLCEPMM001</b>	LC Duplex Multimode 1 Piece Connector with 2.0mm boot
<b>BR-FOCLCEPSM001</b>	LC Duplex Singlemode 1 Piece Connector with 2.0mm boot

## > ST CONNECTOR



ST connector kits comprise of a nickel plated zinc coupling body with a precision ceramic ferrule, crimp sleeve, 2 x colour coded 3mm strain reliefs and a 0.9mm boot.

- > Compliant with IEC 60874-10
- > Strain Relief Colour Code: MM - Red, Black
- > SM - Yellow, Black
- > Typical Insertion Loss: MM - 0.2dB, SM - 0.15dB
- > Minimum Return Loss: SM 45dB

Part No:	Description:
<b>BR-FOCSTEPMM001</b>	ST Multimode Connector
<b>BR-FOCSTEPSM001</b>	ST Singlemode Connector

## > SC SIMPLEX CONNECTOR



SC multimode and singlemode connector kits comprise of a one piece SC body with precision ceramic ferrule, crimp, sleeve, colour coded outer shroud, 2 x colour coded 3mm strain relief boots and a 0.9mm boot.

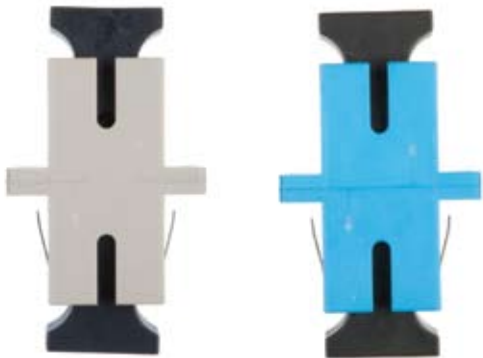
- > Compliant with IEC60874-14
- > Typical Insertion Loss: MM - 0.2dB, SM - 0.15dB
- > Minimum Return Loss: SM 45dB

Part No:	Description:
<b>BR-FOCSCEPMM001</b>	SC Multimode Connector Parts with zirconia ferrule
<b>BR-FOCSCEPSM001</b>	SC Singlemode Connector Parts with zirconia ferrule
<b>BR-FOCSCKLBE</b>	SC Duplex Multimode Clip
<b>BR-FOCSCKLBU</b>	SC Duplex Singlemode Clip





## ► SC SIMPLEX ADAPTOR

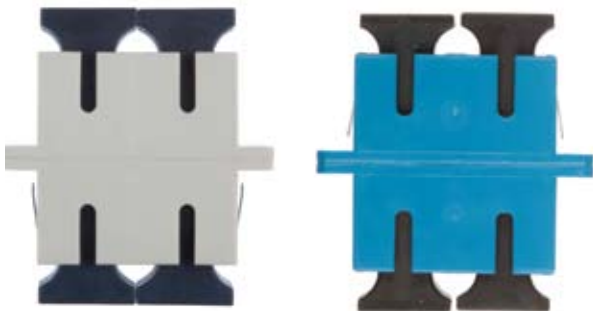


SC Adaptors comprise of a polymer outer body and inner assembly fitted with a precision alignment sleeve. Multimode with metal sleeve. Singlemode with Ceramic Sleeve.

- Compliant with IEC 60875-14
- Max. Insertion Loss: MM - 0.3dB, SM - 0.1dB

Part No:	Description:
<b>BR-BHCSCMM001</b>	SC Multimode (Beige)
<b>BR-BHCSCSM001</b>	SC Singlemode (Blue)

## ► SC DUPLEX ADAPTOR



SC Duplex adaptors comprise of a polymer outer body and an inner assembly fitted with a precision alignment sleeve.

- Multimode with metal sleeve. Singlemode with Ceramic Sleeve.
- Compliant with IEC 60875-14
- Max. Insertion Loss: MM - 0.3dB, SM - 0.1dB

Part No:	Description:
<b>BR-BHCDMM001</b>	SC Duplex - Multimode (Beige)
<b>BR-BHCDSM001</b>	SC Duplex - Singlemode (Blue)

## ► ST ADAPTOR



ST adaptors comprise of a nickel plated zinc die cast body with a precision alignment sleeve. They are both standard and double 'D' hole compatible. Multimode with metal sleeve. Singlemode with ceramic sleeve.

- Compliant with IEC 60875-10
- Max. Insertion Loss: MM - 0.3dB, SM - 0.1dB

Part No:	Description:
<b>BR-BHCSTMM001</b>	ST Multimode
<b>BR-BHCSTSM001</b>	ST Singlemode

## ► FC ADAPTOR

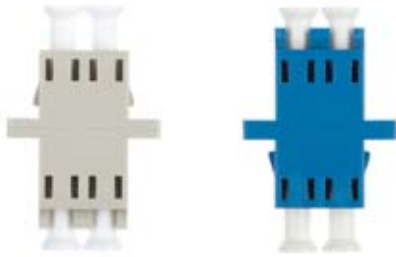


FC adaptors comprise of a nickel plated brass body that is fitted with a precision alignment sleeve. They are standard single and double 'D' hole compatible.

- Compliant with IEC 60875-7
- Max. Insertion Loss: SM - 0.1dB

Part No:	Description:
<b>BR-BHCFCSM001</b>	FC-PC Singlemode

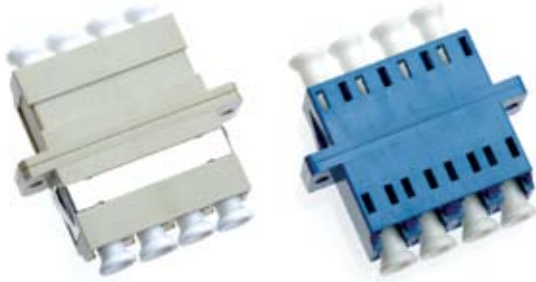
## ▶ LC DUPLEX ADAPTOR



LC duplex adaptors (BHCLXM001) comprise of a polymer body with a precision alignment sleeves. They have the outer dimensions of a simplex SC style adaptor.

Part No:	Description:
<b>BR-BHCLCMM001</b>	LC Multimode (Duplex) (Beige)
<b>BR-BHCLCSM001</b>	LC Singlemode (Duplex) (Blue)

## ▶ LC QUAD ADAPTOR



LC quad adaptors (BHCL4XM001) comprise of a polymer body with precision alignment sleeves. They have the outer dimensions of a quad SC style adaptor


Part No:	Description:
<b>BR-BHCL4MM001</b>	LC Multimode (Quad) Beige
<b>BR-BHCL4SM001</b>	LC Singlemode (Quad) (Blue)

## ▶ MTRJ DUPLEX ADAPTOR





MTRJ adaptors have a polymer outer body which has the outer dimensions of a simplex SC sized adaptor.

Part No:	Description:
<b>BR-BHCMJXX001</b>	MTRJ adaptor





The UK's No1 Structured Cabling System Manufacturer





Networks Centre stock the complete range of Brand-Rex copper and optical cabling systems.

DC

FP

SP

CP

UM

C6

DATA CENTRE
FIBRE PLUS
SMARTPATCH
OCIA PLUS
UMEDIA PLUS
CATE PLUS



Can't find what you're looking for? Then contact us...

# OPTICAL PATCH PANELS

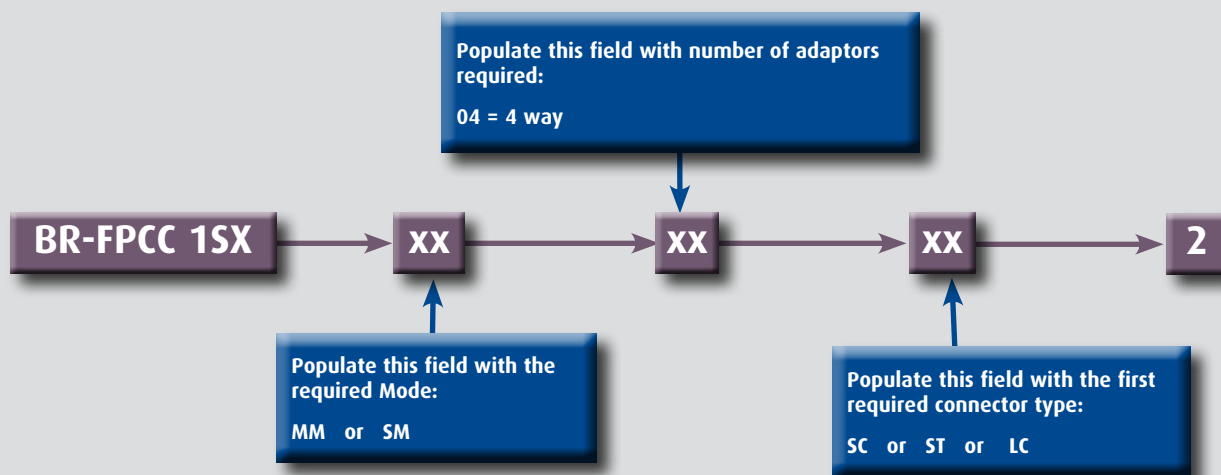


The FibrePlus 19" 1U fibre Optic Patch Panels have been designed to optimise both the internal fibre management but also to add greater fibre density. Constructed from mild steel with a powder coated paint finish the panels are available in Black or Grey. The Patch Panels

offers a flexible and highly versatile solution for optical splicing and patching. The panel's shallow depth allows it to be installed within the majority of standard racks and wall mounted enclosures. The integrated design features ensure that even once installed panels can be readily reconfigured to accommodate the changing needs of today's high speed networks.

- FibrePlus Panels are preloaded with Fibre Optic adaptors
- Front Panel for up to 24 fibre FC, ST, SC 12 way DC, 48 fibre LC, MTRJ, 96 fibre LC quad
- Minimum depth: 237mm
- Front Panel includes a port identification strip
- Suitable for Blolite

## HOW TO CREATE OUR BRAND-REX LOADED OPTICAL PATCH PANELS PART NUMBERS



Eg: BR-FPCC1SXSM16ST2 = PANEL LOADED WITH 16 ST SM ADAPTORS – BLACK

# UNLOADED OPTICAL PATCH PANELS



The FibrePlus 1U fibre 19" Optic Patch Panels have been designed to optimise both the internal fibre management but also to add greater fibre density. Constructed from mild steel with a powder coated paint finish the panels are available in Black or Grey. The Patch Panels offers a flexible and highly versatile solution for optical splicing and patching. The panel's shallow depth allows it to be installed within the majority of standard racks and wall mounted enclosures. The integrated design features ensure that even once installed panels can be readily reconfigured to accommodate the changing needs of today's high speed networks.

- Enhanced sliding tray for easy access complete with quick release fastenings
- Adjustable mounting brackets aids installation within shallow enclosures
- Minimum depth 237mm

- Rear of panel offers a range of apertures to accommodate a variety of gland configurations
- Unloaded panels are supplied with management and glands
- Purpose designed panel base allows for customised fibre management and additional anchoring points for incoming cables or ducts
- Front face of the panel includes a port identification strip compatible with blolite.

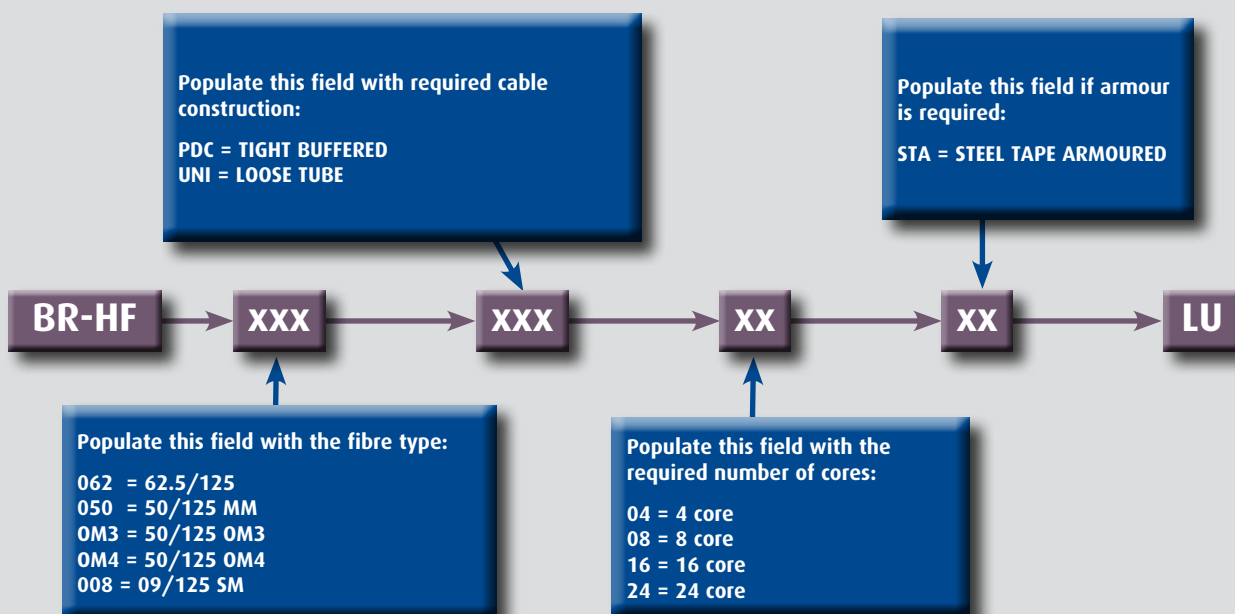
Front panel configuration options:

- 24 fibre using ST, SC, FC-PC, LC or MTRJ
- 48 fibre using Duplex SC, Duplex LC or MTRJ
- 96 fibre using Quad LC

Part No:	Description:
BR-FPCC1SXXX48SC2	Unloaded Optical Panel for up to 24 SC Simplex, LC or MTRJ adapters - Black
BR-FPCC1SXXX24DC2	Unloaded Optical Panel for up to 12 SC Duplex adapters - Black
BR-FPCC1SXXX48DC2	Unloaded Optical Panel for up to 24 SC Duplex adapters - Black
BR-FPCC1SXXX24ST2	Unloaded Optical Panel for up to 24 ST or FC adapters - Black



## HOW TO CREATE OUR BRAND-REX FIBRE OPTIC CABLE PART NUMBERS



Eg: BR-HF062PDC04LU = 4 CORE 62.5/125 TIGHT BUFFERED INT/EXT CABLE BLACK

### ➤ TIGHT BUFFERED INTERNAL EXTERNAL



For building backbone and horizontal distribution applications, the PDC cable range has been designed to be compact and yet offer excellent tensile performance making it suitable for a wide range of applications. The universal construction enables the cable to be used internally and externally without the need for transition cable joints. All universal PDC cables are constructed around the 900µm tight buffered elements which are suitable for direct termination.

- Compact design.
- Water blocked design.
- Low smoke halogen free sheath.

### ➤ LOOSE TUBE INTERNAL/EXTERNAL



For building backbone applications, the duct grade unitube cable range has been designed to be lightweight and compact. The 4-12 fibre product variants are constructed around a 2.90mm gel filled loose tube, whereas the 16-24 fibre variants use a 4.00mm loose tube.

- Compact water blocked design.
- Up to 24 fibres.
- Level 1 rodent protection.
- Choice of universal or external sheath.

### ➤ STEEL TAPE ARMoured UNITUBE CABLE



For direct burial campus backbone applications, the steel tape armoured unitube cable range has been designed to be compact and yet offer excellent tensile and crush performance making it suitable for a wide range of applications. Steel tape armoured unitube cables are constructed around the 4.00mm gel filled PBT loose buffer tube. The 16-24 fibre variants are supplied with 2 bundles within the loose tube.

- Steel tape armouring.
- Maximum protection from rodents.
- Choice of universal or external sheath.



Can't find what you're looking for? Then contact us...



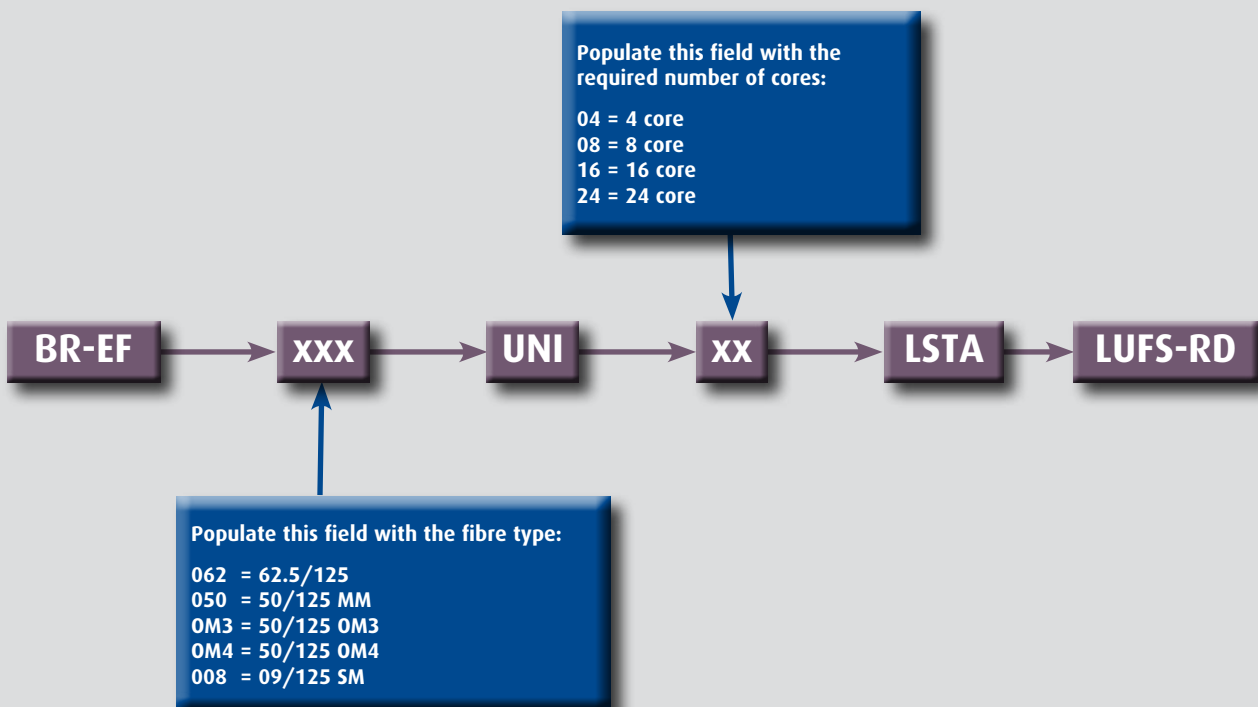
## ► FIRE SURVIVAL CABLE



Fire Survival cable is used in areas where critical data transmission must continue when the building structure in which it is installed is on fire. For this reason its use in large public buildings such as datacentres, airports, railway stations, stadia and onshore/offshore industrial structures is becoming increasingly common. The use of the cable in building management, fire and security systems means that these vital systems will remain functional in the event of a real life incident which requires an emergency evacuation.

- Independent 3rd party tested (BRE).
- Unitube design offering up to 24 fibres.
- Layer of fire retardant tape.
- Steel tape armour.
- Twin low smoke halogen-free sheaths.

## HOW TO CREATE OUR BRAND-REX FIRE SURVIVAL CABLE PART NUMBERS



Eg: BR-EF050U04LSTALUFS-RD = 4 CORE UNITUBE FIRE SURVIVAL CABLE OM2

Customer requirements in the ever-advancing communications market continues to grow, stretching scarce bandwidth resources and truly testing the performance of today's networks. In choosing cabling system solutions, whether for small, medium or large multiple site locations, server farms or co-location datacentres, network planners have some serious issues to consider. Among these is the decision as to which type and mix of fibre to install to allow for network expansion and upgrades has been a dilemma for many years. In the past, industry practice has been to install 'dark fibre' to meet future demands, however, this strategy is by no means risk-free as untested, untested fibres may not be fit for purpose when the time comes to light the fibres in the future. Fortunately there is a simple and cost effective solution – Brand-Rex Air Blown Fibre Systems offer solutions internal and external applications with their market leading system Blolite. The use of Air Blown Fibre Systems gives complete freedom from risk by pre-installing a ducting route and then blowing in the fibre element (and paying for it) only when required. The Blolite system was one of the first Air Blown Fibre systems, it is

also regarded as the 'industry standard' Air Blown Fibre System. The Blolite system is very versatile with backbone and / or fibre to the desk links and can even allow for long distance link of up to 1km. Blolite is easily installed, by using compressed air, there is no disruption to the workplace. Blolite fibres are simply terminated and are compatible with all standard optical connectors. Blolite is also extremely reliable, with a zero failure rate since the first installations in 1988 – truly an 'insurance policy' for high speed networks. It is no surprise that major users such as Manchester Airport, IBM, Ericsson, ABN Amro, the British MoD, Aerospatiale, Pfizer and even the US Navy have taken advantage of the system.



## ► SINGLE BLOWN FIBRE ELEMENTS



The Blolite system offers a complete range of high quality singlemode and multimode optical fibres, with a blowable coating and having a finished size of 500µm. The Blolite fibre is strippable with standard tools and is compatible with standard connector types. Blolite fibre is available in twelve standard colours and is supplied on plastic spools in 2km or 4km lengths for installation into Blolite 3mm, 5mm and 8mm MicroDuct by trained and licensed Blolite installers using the IM2000 blow head.

- Unique 'Blowable' coating.
- 12 Standard Colours.
- Installation up to 1000m.

## ► BLOLITE INTERNAL MULTIDUCTS



To facilitate the installation of Blolite single blown fibres a range of multi-way MicroDucts into which Blolite fibres, can be blown are available. The internal range of these MultiDucts are constructed with the standard Blolite MicroDuct surrounded with a layer of polyester tape and a LSHF outer sheath making them suitable for internal applications.

- Available with 3mm, 5mm or 8mm MicroDucts.
- Non metallic design.
- Simple MicroDuct identification.

## ► BLOLITE EXTERNAL MULTIDUCTS

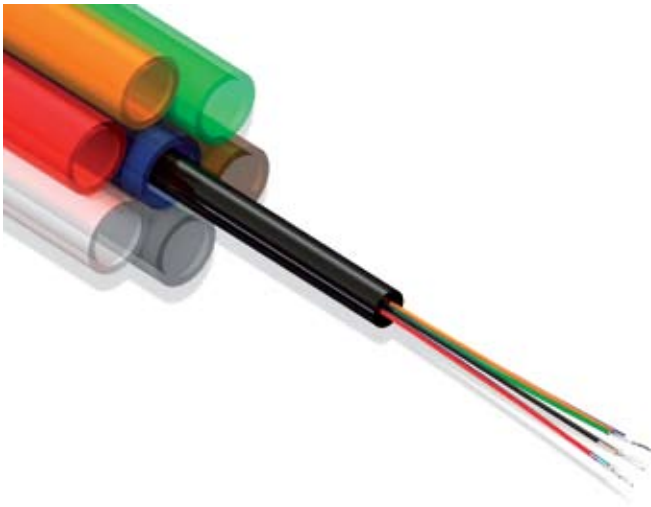


To facilitate the installation of Blolite single blown fibres a range of multi-way MicroDucts into which Blolite fibres can be blown are available. The external range of these MultiDucts are constructed with the standard Blolite MicroDuct Polyethylene outer sheath making them suitable for external applications.

- Available with 5mm or 8mm MicroDucts.
- MicroDuct numbered for identification.

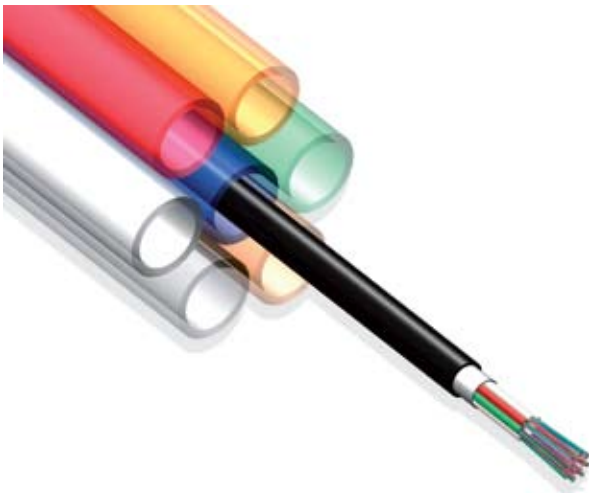


## ➤ 2-12 FIBRE BLOWN MICRO CABLE



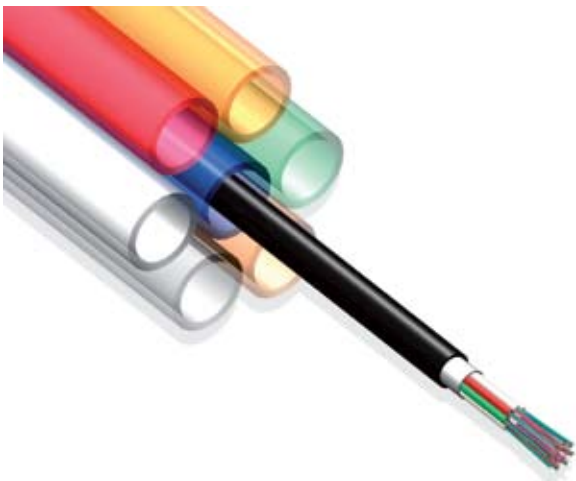
Microduct cabling systems are popular solutions for building flexibility into a network, they can be populated when needed and leave spare capacity for future growth. The ability to defer initial installation costs is a key advantage of an air blown cable installation over traditional cable installations. The new Microblo air blown loose tube microduct cable is available with fibre counts from 2 to 12 in a 2.5 mm diameter package. The cable has been specifically designed and developed for improved installation efficiency in pre-installed 5 / 3.5 mm microducts using existing air blown installation techniques.

## ➤ 12-72 FIBRE BLOWN MICRO CABLE



Microduct cabling systems are popular solutions for building flexibility into a network, they can be populated when needed and leave spare capacity for future growth. The ability to defer initial installation costs is a key advantage of an air blown cable installation over traditional cable installations. The new Microblo air blown loose tube microduct cable is available with fibre counts from 12 to 72 in a 6.0 mm diameter package. The micro cable is constructed of a non metallic, resin bonded glass central strength member and high density polyethylene sheath. The cable has been specifically designed and developed for improved installation efficiency in pre-installed 10/8 mm microducts using existing air blown installation techniques. Dry water blocking technology ensures the cable cores are fully water blocked.

## ➤ UP TO 96 FIBRE MICRO CABLE



Microduct cabling systems are popular solutions for building flexibility into a network, they can be populated when needed and leave spare capacity for future growth. The ability to defer initial installation costs is a key advantage of an air blown cable installation over traditional cable installations. The new Microblo air blown loose tube microduct cable is available with fibre counts of 84 and 96 fibres in a 7.0mm diameter package. The cable has been specifically designed and developed for improved installation efficiency in pre-installed 12 /10 mm microducts using existing air blown installation techniques. Dry water blocking technology ensures the cable cores are fully water blocked.

- Non-metallic, resin bonded glass central strength member.
- Layer of stranded elements: Maximum 12 fibres per gel filled tube, plus solid fillers as necessary.
- Dry water blocked interstices.
- High density polyethylene sheath.

## ► UNLOADED OPTICAL PATCH PANEL



Modular panel assemblies are used to terminate backbone cables at the distributor or the equipment outlet ends and also to interface to patchcords or equipment cords. The 1U panel fits into standard 19" racks and accommodates up to 3 plug in units. LGX boxes, MPO adaptor plates or blanking plates are available as units.

- The system is simple and flexible and accommodates up to 216 fibre terminations in 1U.
- Up to 36 duplex LC connections per U can be provided using LGX boxes. Or, up to 216 connections per U can be achieved using the 3 of the 6 way MPO adaptor plates.
- The LGX boxes are available in high performance OM3, OM4 or OS1 (008) types.

Part No:	Description:
<b>BR-MTA6</b>	Adaptor Plate - clip in, with 6 'type A' 'key up' to 'key down' MPO adaptors
<b>BR-MTBLK</b>	Blanking Plate - clip in, to cover open apertures on the panel front face
<b>BR-MTPNL</b>	19" Sliding tray panel with three apertures on the front face for clipping in modules, blanks or adaptor plates

## ► MPO BREAKOUT ASSEMBLY

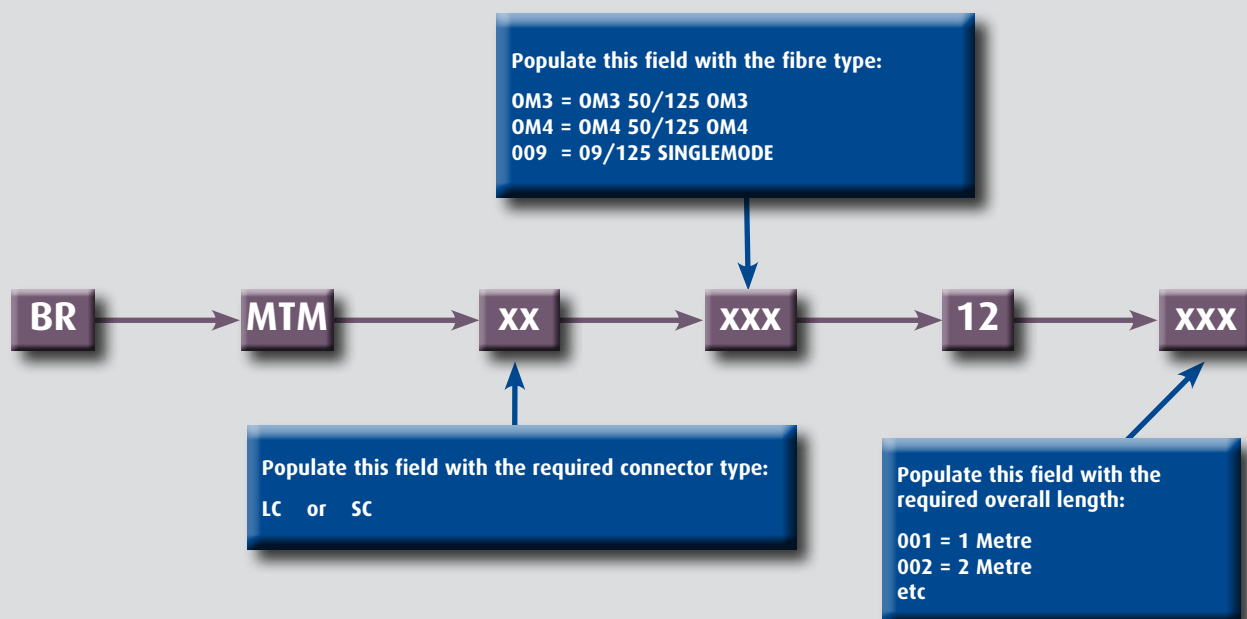


MPO hybrid breakout unit is made up a 12 fibre LSHF jacketed cable terminated at one end in MPO connectors, through a bifurcation unit, to SC or LC connectors terminated on 2mm OD simplex cables. These are used to connect equipment in racks to MPO terminated backbone cables. The assemblies are available in OM3, OM4 or OS1 (008) performance grade.

### Ordering Information:

- The assemblies are available in standard lengths of 2m and 3m as standard.
- Custom engineered lengths are also available on request.
- The assemblies are delivered as coils.

## HOW TO CREATE OUR BRAND-REX MPO BREAKOUT ASSEMBLY PART NUMBERS



Eg: BR-MTMLCOM312001 = 1 METRE OM3 MPO BREAK OUT ASSEMBLY WITH 12 LC CONNETIONS



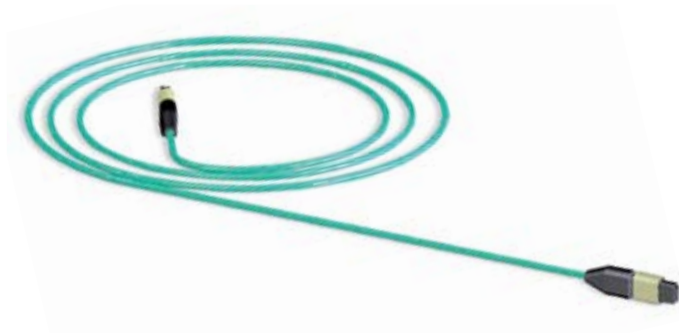


## ➤ MPO CASSETTE



Part No:	Description:
<b>BR-MTMLGXLC00812</b>	LG X 'clip in' module with 12 LC s on the front face
<b>BR-MTMLGXLC00824</b>	LG X 'clip in' module with 24 LC s on the front face
<b>BR-MTMLGXLCOM312</b>	LG X 'clip in' module with a pinned MPO at the rear, 12 LC s on the front face, OM3 performance
<b>BR-MTMLGXLCOM324</b>	LG X 'clip in' module with 2 pinned MPOs at the rear, 24 LC s on the front face, OM3 performance
<b>BR-MTMLGXLCOM412</b>	LG X 'clip in' module with 12 LC s on the front face, OM4 performance
<b>BR-MTMLGXLCOM424</b>	LG X 'clip in' module with 24 LC s on the front face, OM4 performance

## ➤ MPO PRE-TERMINATED CABLE

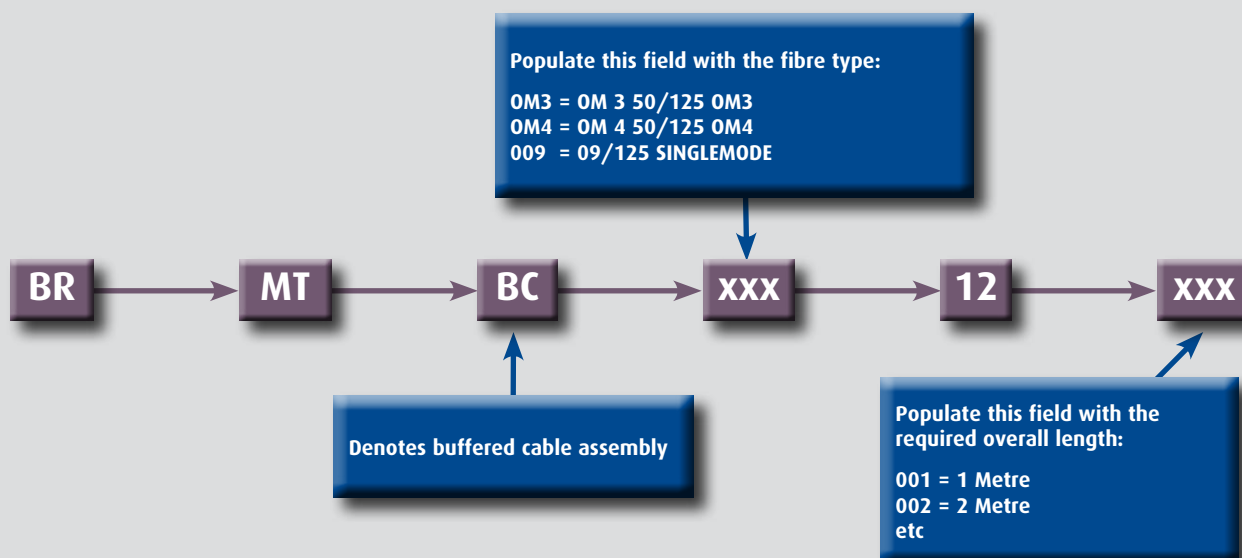


An MPO cable assembly is made up of 12 a fibre LSHF jacketed cable terminated at both ends in MPO connectors (without pins). These are used as backbone or horizontal cable interconnections between distribution racks. The assemblies are available in a range of performance levels (OM3, OM4 or OS1 (008) types) and in different types to suit the needs of the network.

### Ordering Information:

- Assemblies are available in standard lengths of 1, 3, 5, 10, 20, 30, 50 and 100m.
- Custom engineered lengths are also available on request.
- Assemblies are delivered as coils in lengths up to 50m long and on reels in lengths over 50m.
- Singlemode cables are yellow.
- MT Connect Pre-Terminated Fibre Systems Multimode cables are aqua.

## HOW TO CREATE OUR BRAND-REX MPO PRE TERMINATED CABLE PART NUMBERS



Eg: BR-MTBCOM312001 = 1 METRE OM3 MPO PRE TERMINATED CABLE ASSEMBLY



The Brand-Rex datacentre cabinets and racks range offers the ultimate solution for management of fibre and copper in datacentres and telecoms rooms. The unique, flexible and effective range is the ideal solution to support the mission critical applications of the modern day datacentre. These ground breaking solutions have been designed, in conjunction with customers, with an emphasis on minimising on-site installation times, improving

accessibility to cabling and to providing modularity to enhance the overall operational flexibility.

The High Density Solutions are designed to solve the problems of today's networking environment, providing unique working and cabling accessibility to completely transform cabinet installation layouts, on-site installation and on-going system management.

## HIGH DENSITY COPPER CABINET SYSTEM



The High Density Cabling Cabinet offers the ultimate solution for management of crossconnect cabling in datacentres and telecoms rooms. The cabinet offers the ability to create a preferred enclosure design configuration that fits the needs of today's working environment. To tailor a solution to your requirements simply begin with the basic frame and subsequently add doors, side panels and top panels as required. The range also has a comprehensive array of accessories to suit all applications. If you have any problems please contact our expert customer service team for technical assistance.

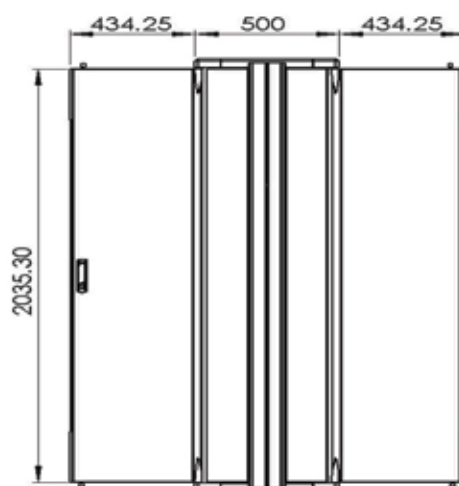
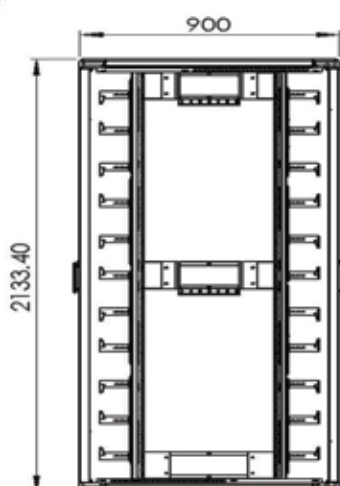
- Reduced installation time.
- Network installations made easy.
- Maximising useable space and minimise footprint.
- Totally open constructions for ease of cross-patching.
- Flexible configuration.
- Enhanced thermal management.

### Applications:

- Small, corporate and internet datacentres.
- Installation suitable for use with approved Brand-Rex copper and fibre patchcords, panels and cable management products.

### Mechanical specifications:

- Dimensions: 900mm (W) x 2133.4mm (H) x 500mm (D).
- Weight: 118kg (including through troughsand twist and locks).



Part No:	Description:
<b>PRE CONFIGURED CABINETS</b>	
<b>BR-DRCRAK45U0905A2</b>	<b>Access HDC Frame</b> - 45U x 900mm wide x 500mm deep, Black <i>(including pallet, 2 x 150mm cable tray)</i>
<b>BR-DRCRAK45U0905C12</b>	<b>Configuration 1</b> - Stand Alone HDC Frame - 45U x 900mm wide x 500mm deep, Black <i>(Including pallet and all BR recommended accessories - Double Doors, Side Panels, Top Panel, Through Troughs, Twist and locks, Earth Kit, U Label, Document Wallet)</i>
<b>BR-DRCRAK45U0905C22</b>	<b>Configuration 2</b> - 'Back to Back' HDC Frame - 2 x Standard HDC Frame DRCRAK45U0905A2 - 45U x 900mm x 500mm, Black <i>(Including pallet and a BR recommended accessories - Double Doors, Side Panels, Top Panels, Through Troughs, Twist and locks, Earth Kits, U Labels, Document Wallets, Baying Kits)</i>
<b>BR-DRCRAK45U0905C32</b>	<b>Configuration 3</b> - 'Side to Side' HDC Frame - 2 x Standard HDC Frame DRCRAK45U0905A2 - 45U x 900mm x 500mm - Black <i>(Including pallet and all BR recommended accessories - Double Doors, Side Panels, Top Panels, Through Troughs, Twist and locks, Earth Kits, U Labels, Document Wallets, Bolt Together Kits)</i>
<b>BR-DRCRAK45U0905C42</b>	<b>Configuration 4</b> - 'Back to Back' and 'Side to Side' HDC Frame - 4 x Standard HDC Frame DRCRAK45U0905A2 - 45U x 900mm x 500mm, Black <i>(Including pallet and all BR recommended accessories - Double Doors, Side Panels, Top Panels, Through Troughs, Twist and locks, Earth Kits, U Labels, Document Wallets, Bolt Together Kits, Baying kits)</i>
<b>BR-DRCRAK45U0905H52</b>	<b>Configuration 5</b> - 'Back to Back' HDC and HDPC Frame - 1 x Standard HDPC Frame DRCRAK45U0905FX2 - 45U x 900mm x 500mm, Black and 1 x Standard HDC Frame DRCRAK45U0905A2 - 45U x 900mm x 500mm, Black <i>(Including Double Doors, Side Panels, Top Panels, Centre Panels, Baying Kits, Bolt Together Kits, U Labels, Document Wallets)</i>

Part No:	Description:
<b>HIGH DENSITY RACKS</b>	
<b>BR-DRCDOR45U09DS2</b>	HDC Double Steel Doors 45U x 900mm wide, Black
<b>BR-DRCDOR45U09SS2</b>	HDC Plain Steel Door 45U x 900mm wide, Black
<b>BR-DRCSP45U05DS2</b>	1 Set of HDC Plain Side Panels 45U x 500mm deep, Black
<b>BR-DRCTPL45U0509SS2</b>	HDC Plain Top Panel 900mm wide x 500mm deep, Black
<b>HIGH DENSITY RACK ACCESSORIES</b>	
<b>BR-DRCACCCM001</b>	Pack of 10 Twist and Lock Cable Management Support Arms
<b>BR-DRCACCDW001</b>	Document Wallet
<b>BR-DRCCT3U0402</b>	3U Cable Trough Cable Trough, Black
<b>BR-DRCCTCE3U0402</b>	3U Cable Trough Channel Extender, Black
<b>BR-DRCFPBB152</b>	HDC, 2 Bay Back to Back Computer Floor Plinth
<b>BR-DRCKITBB001</b>	HDC Back to Back Baying Kits (Pair), Black (includes 2 for top and bottom)
<b>BR-DRCKITBT001</b>	Bolt Together Kit
<b>BR-DRCLBL47U001</b>	Self Adhesive Unit Height Labels - Bottom to Top (1 - 47)
<b>BR-DRCSP45U04SS2</b>	HDC 45U Centre Side Panel, Black
<b>BR-DRCTRY45U015SP</b>	HDC 45U x 150mm Wide Cable Tray

# DISTRIBUTION EQUIPMENT RACK



The Distribution Equipment Rack (DER) provides increased accessibility and has a flexible modular design that can be configured to suit small, corporate and internet datacentres. The DER set can be configured as an open frame to manage the cabling at the distributors or as a closed cabinet to safely secure servers and storage equipment. The designs are modular and flexible.

The logic of the modular, flexible systems are the key benefits of this best in class cable and equipment management system range. Features also include vented and glass door options, side panels and top panels with cable access. These cabinets have an unparalleled level of flexibility, providing the end user with the right cabinet for the right application.

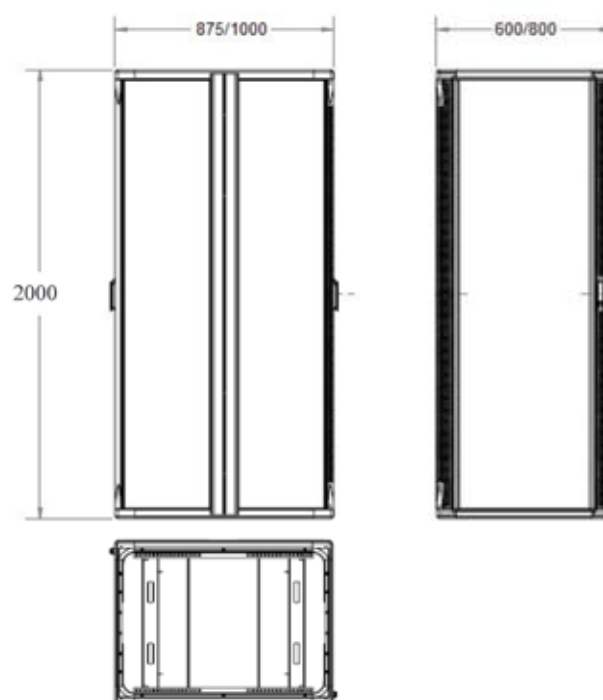
- Reduced installation time.
- Network installations made easy.
- Maximising useable space and minimise footprint.
- Totally open constructions for ease of cross-patching.
- Flexible configuration.
- Enhanced thermal management.

## Applications:

- Small, corporate and internet datacentres.
- Installation suitable for use with approved Brand-Rex Copper and Fibre Patchcords, panels and cable management products.

## Mechanical specifications:

- Dimensions: 2000mm x 875/1000mm x 600/800mm (H x D x W).
- Weight: 150kg (including Doors, Side Panels and Twist and Locks).

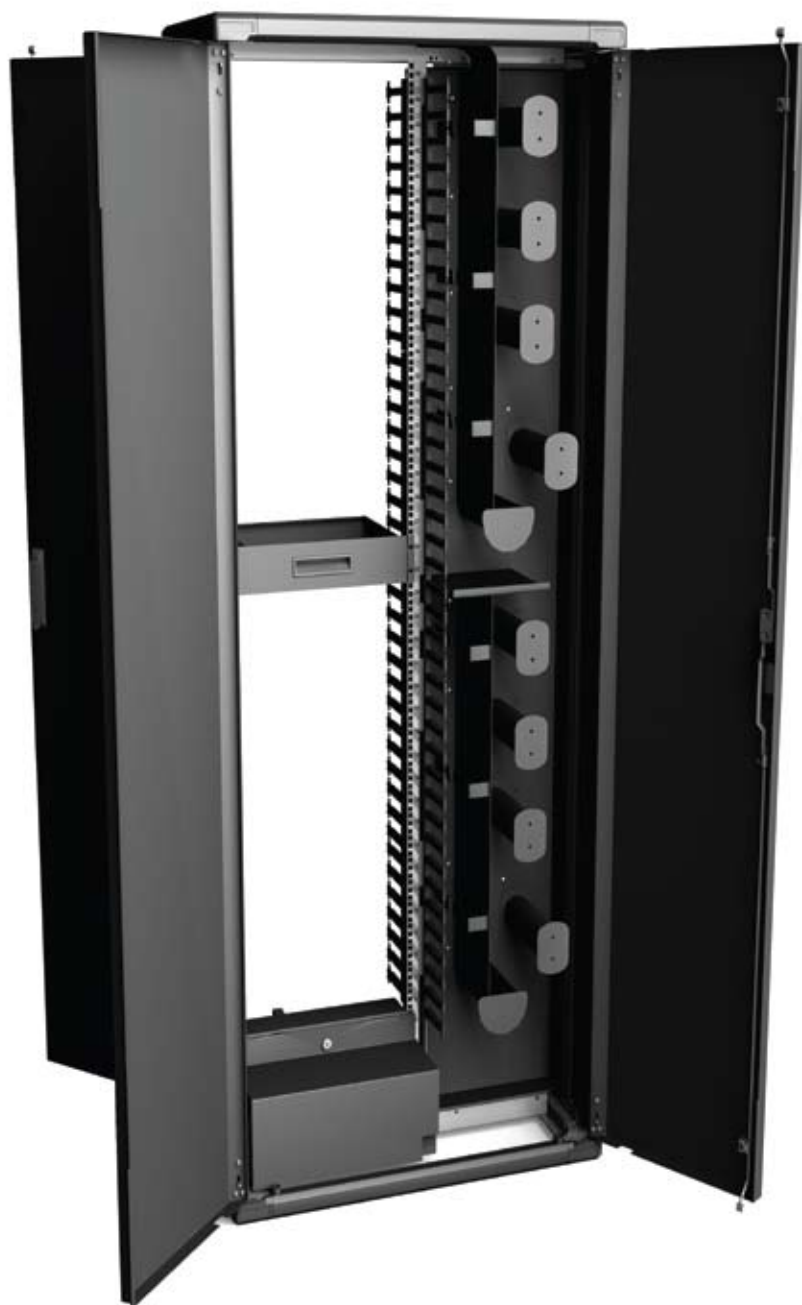




Part No:	Description:
<b>DISTRIBUTION EQUIPMENT RACK (DER)</b>	
<b>BR-DRCRAK42U0610A2</b>	Black Rack 42U, 600x1000 Frame c/w Standard Corner Plates, Jacking Feet, 19" Rails, No Doors, No Panels, 2 x Plain Panels, Vented Panel, Black Panels c/w Black Trim
<b>BR-DRCRAK42U0808A2</b>	Black Rack, 42U 800x875 Frame c/w Standard Corner Plates, Jacking Feet, 19" Rails, No Doors, No Panels, 2 x Plain Panels, Vented Panel, Black Panels c/w Black Trim
<b>BR-DRCRAK42U0810A2</b>	Black Rack 42U, 800x1000 Frame c/w Standard Corner Plates, Jacking Feet, 19" Rails, No Doors, No Panels, 2 x Plain Panels, Vented Panel, Black Panels c/w Black Trim
<b>BR-DRCDOR42U06DV2</b>	Double Vented Steel Door 42U high, Black Panels and Black Trims 600mm wide
<b>BR-DRCDOR42U06SG2</b>	Glass Door (Hinged Left) 42U high, Black Panels and Black Trims 600mm wide
<b>BR-DRCDOR42U06SV2</b>	Vented Steel Door (Hinged Left) 42U high, Black Panels and Black Trims 600mm
<b>BR-DRCDOR42U08DV2</b>	Double Vented Steel Door 42U high, Black Panels and Black Trims 800mm wide
<b>BR-DRCDOR42U08SG2</b>	Glass Door (Hinged Left) 42U high, Black Panels and Black Trims 800mm wide
<b>BR-DRCDOR42U08SV2</b>	Vented Steel Door (Hinged Left) 42U high, Black Panels and Black Trims 800mm
<b>BR-DRCSP42U08DS2</b>	1 Set of twin Plain side panels, (Black Steel), 42U high, 875mm deep
<b>BR-DRCSP42U10DS2</b>	1 Set of twin Plain side panels, (Black Steel), 42U high, 1000mm deep
<b>DER CABLE TRAY</b>	
<b>BR-DRCTRY42U008SP</b>	42U x 75mm Cable Tray
<b>BR-DRCTRY42U015SP</b>	42U x 150mm Cable Tray
<b>DER ACCESSORIES</b>	
<b>BR-DRCKITBT001</b>	Bolt Together Kit
<b>BR-DRCKITCH001</b>	1 x Heavy Duty Castor Kit
<b>BR-DRCKITER001</b>	1 x Earth Kit

Part No:	Description:
<b>DER SHELVES</b>	
<b>BR-DRCSHF1U0192</b>	1U 19" Front Mounted Cantilever Shelf 190mm deep
<b>BR-DRCSHF1U0452-QF</b>	Quick Fit 19" Fixed Shelf 450mm deep
<b>BR-DRCSHF1U0452-QFS</b>	Universal Quick Fit 19" Sliding Shelf 450mm deep
<b>BR-DRCSHF1U0552-QF</b>	Quick Fit 19" Fixed Shelf 550mm deep
<b>BR-DRCSHF1U0602-QFS</b>	Universal Quick Fit 19" Sliding Shelf 600mm deep
<b>BR-DRCSHF1U0652-QF</b>	Quick Fit 19" Fixed Shelf 650mm deep
<b>BR-DRCSHF1U0752-QF</b>	Quick Fit 19" Fixed Shelf 750mm deep
<b>BR-DRCSHF1U0752-QFS</b>	Universal Quick Fit 19" Sliding Shelf 750mm deep
<b>BR-DRCSHF2U0402</b>	2U 19" Front Mounted Cantilever Shelf 400mm deep
<b>DER POWER DISTRIBUTION</b>	
<b>BR-DRCFANTP0206AS2</b>	2 Way Fan Tray (230V AC) Top Panel 600mm wide, Black Steel, Includes 2M Long 13A Mains Lead
<b>BR-DRCFANTP0208AS2</b>	2 Way Fan Tray (230V AC) Top Panel 800mm wide, Black Steel, Includes 2M Long 13A Mains Lead
<b>BR-DRCLEDA-020</b>	Fan tray lead 13 AMP
<b>BR-DRCLEDB-020</b>	Fan tray lead IEC
<b>BR-DRCPDU1U06AS</b>	1 x 6 Way switched UK Power Distribution Unit
<b>BR-DRCPDU1U06BS</b>	1 x 6 Way switched IEC Power Distribution Unit
<b>BR-DRCPDU1U08AS</b>	1 x 8 Way switched UK Power Distribution Unit
<b>BR-DRCPDU1U08BS</b>	1 x 8 Way switched IEC Power Distribution Unit
<b>DER BLANKING PANELS</b>	
<b>BR-DRCBPL1U2-QF</b>	19" 1U Quick Fit Blanking Panel
<b>BR-DRCBPL2U2-QF</b>	19" 2U Quick Fit Blanking Panel
<b>BR-DRCBPL5U2-QF</b>	19" 5U Quick Fit Blanking Panel

# HIGH DENSITY FIBRE CABINET SYSTEM



The Brand-Rex High Density Fibre Cabinet and Panel offers the ultimate solution for management of fibre in datacentres and telecoms rooms. The solution is designed with an emphasis on minimising on-site installation times, accessibility to cabling and modularity to enhance its operational flexibility. The cabinet is the first fibre cabinet designed to solve the problems of today's networking environment. It provides unique working and cabling accessibility to totally transform cabinet installation layouts, onsite installation and on-going system management.

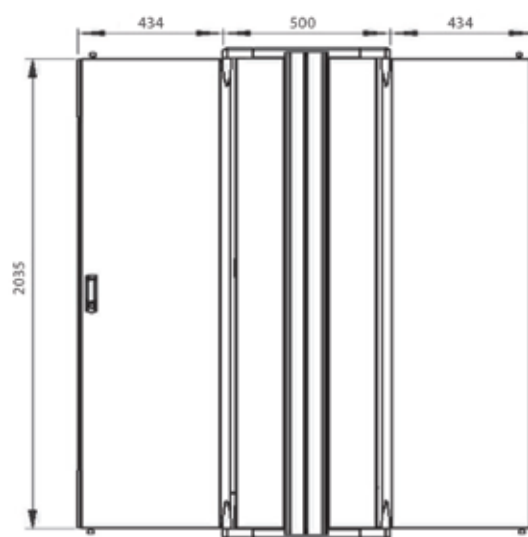
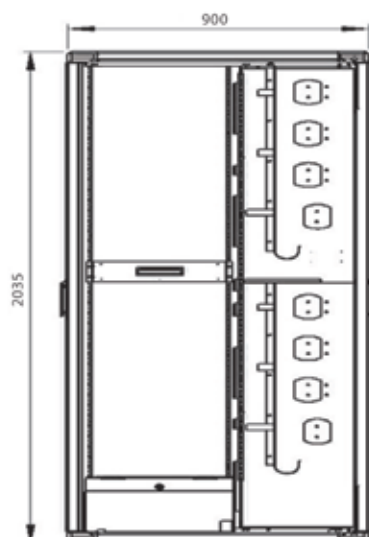
- Up to 912 Duplex ports in a 900mm (W) x 500mm (D) footprint, 45U Frame.
- Easy patching access reduces installation time.
- Maximises useable space and minimise footprint.
- Open construction for ease of cross-patching.
- Minimum bend radius maintained throughout system.
- Unique manifold and duct routing system which allows easy installation of cables.

## Applications:

- Corporate and internet datacentres.
- Installation suitable for use with approved Brand-Rex Fibre patch panels, patchcords and cable management.

## Mechanical specifications:

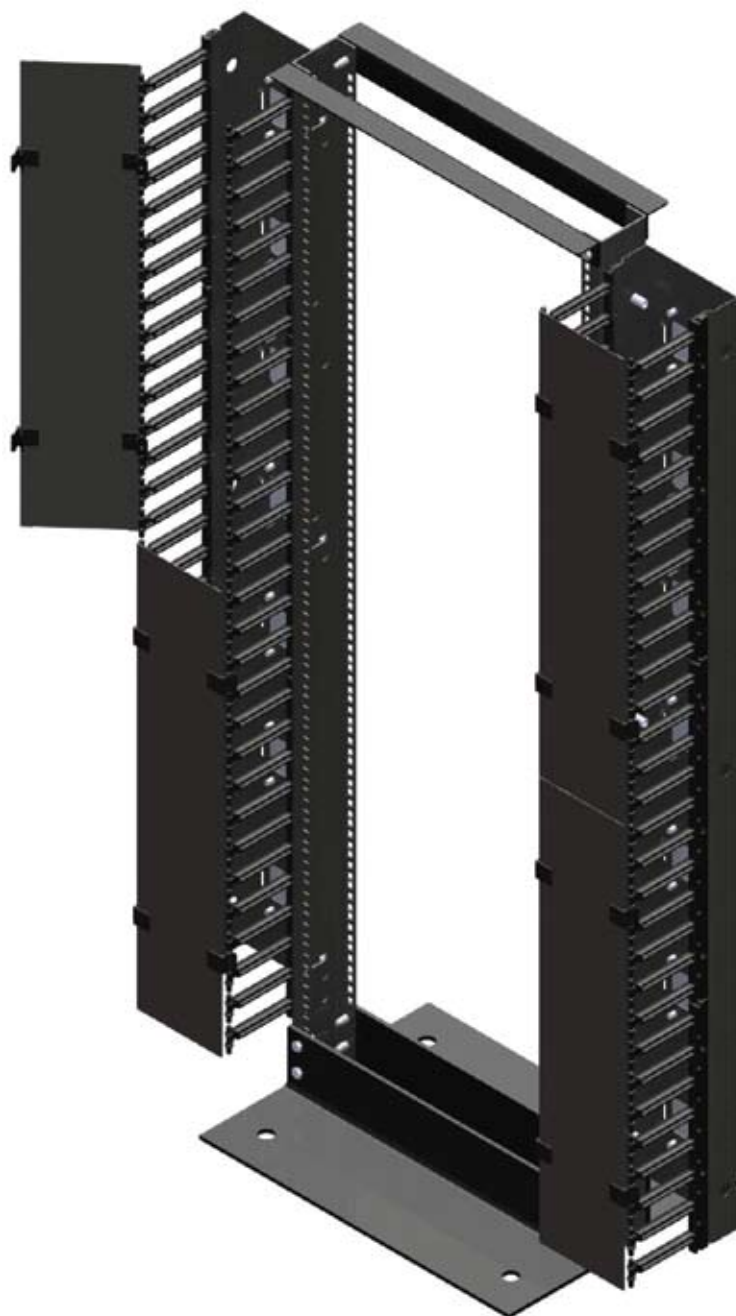
- Dimensions: 900mm (w) x 2133mm (H) x 500mm (D) top and side panels, without fibre patch panels).
- Weight: 110kg (includes accessories, doors, top and side panels, without fibre patch panels).



Part No:	Description:
<b>HDFC ASSEMBLIES</b>	
<b>BR-DRCRAK45U0905F12</b>	<b>Assembly 1</b> - Stand Alone HDFC, Black <i>Includes Frame, Doors, Side and Top Panels, Label and Document Wallet</i>
<b>BR-DRCRAK45U0905F22</b>	<b>Assembly 2</b> - Back to Back HDFC, Black <i>Includes 2 Frames, Doors, Side, Top and Centre Panels, Baying Kits, Labels and Document Wallets</i>
<b>BR-DRCRAK45U0905F32</b>	<b>Assembly 3</b> - Side by Side HDFC, Black <i>Includes 2 Frames, Doors, Side and Top Panels, Bolt together Kits, Labels and Document Wallets</i>
<b>BR-DRCRAK45U0905F42</b>	<b>Assembly 4</b> - Back to Back and Side by Side HDFC, Black - <i>Includes 4 Frames, Doors, Side, Top and Centre Panels, Baying and Bolt Together Kits, Labels and Document Wallets</i>
<b>BR-DRCRAK45U0905H52</b>	<b>Assembly 5</b> - Back to Back HDC (Copper) and HDFC Frame, Black <i>Includes Frames, Doors, Side, Top and Centre Panels, Baying Kits, Labels and Document Wallets</i>
<b>HDFC FRAMES</b>	
<b>BR-DRCRAK45U0905F2</b>	Standard High Density Fibre Cabinet (HDFC) Frame - 45U x 900mm (W) x 500mm (D), Black
<b>BR-DRCRAK45U0905FX2</b>	Standard High Density Fibre Cabinet (HDFC) Frame - 45U x 900mm (W) x 500mm (D), Black <i>(including pallet and Accessories marked *)</i>
<b>HDFC DOORS</b>	
<b>BR-DRCDOR45U09DS2</b>	High Density Fibre Cabinet (HDFC) Double Steel Doors 45U x 900mm wide, Black
<b>BR-DRCDOR45U09SS 2</b>	High Density Fibre Cabinet (HDFC) Plain Steel Door 45U x 900mm wide, Black
<b>HDFC FIBRE PANELS</b>	
<b>BR-FPCPC100848LC2</b>	HDFC Optical Panel, loaded with 12 x Quad LC Single mode adapters and 48 x Simplex SM pigtail LC Easy Strip 2m, Black
<b>BR-FPCPC10M348LC2</b>	HDFC Optical Panel, loaded with 12 x Quad LC Multimode adapters and 48 x Simplex OM3 pigtail LC Easy Strip 2m, Black
<b>BR-FPCPC1XMM48LC2</b>	HDFC Optical Panel, loaded with 12 x Quad LC Multimode adapters, 1U Dual cassette, Black
<b>BR-FPCPC1XSM48LC2</b>	HDFC Optical Panel, loaded with 12 x Quad LC Single mode adapters, 1U Dual cassette, Black

Part No:	Description:
<b>HDFC ACCESSORIES</b>	
<b>BR-DRCBPL1U172</b>	17" 1U Blanking Panel
<b>BR-DRCBPL2U172</b>	17" 2U Blanking Panel
<b>BR-DRCBPL5U172</b>	17" 5U Blanking Panel
<b>HDFC SIDE / TOP PANELS</b>	
<b>BR-DRCBPL45U09SS 1</b>	High Density Fibre Cabinet (HDFC) Plain Steel Back Panel 45U x 900mm wide, Black
<b>BR-DRCSPL45U04SS 2</b>	High Density Fibre Cabinet (HDFC) 45U Centre Side Panel, Black
<b>BR-DRCSPL45U05DS2</b>	1 set of High Density Fibre Cabinet (HDFC) Plain Side Panels 45U x 500mm deep, Black <i>(1 side only - 2 Required for L and R)</i>
<b>BR-DRCTPL45U0509B2</b>	High Density Fibre Cabinet (HDFC) Brush Top Panel 900mm wide x 500mm deep, Black
<b>HDFC FIXING COMPONENTS</b>	
<b>BR-DRCKITBB001</b>	High Density Fibre Cabinet (HDFC) Back to Back Baying Kits (Pair), Black <i>(includes 2 for top and bottom)</i>
<b>BR-DRCKITBT001</b>	Bolt Together Kit
<b>BR-DRCKITFLR001</b>	Floor Fixing Kit for HDFC Racks (Concrete Floor)

# HIGH DENSITY OPEN ENTRY RACK



The Open Entry Rack (OER) offers a simple, modular and easy-to-install system that can also be applied to small, corporate and internet datacentre environments. It can be used standalone or in multiples. It is an ideal solution for the main distribution area. The modular and scalable design of the OER offers numerous options and solutions to deal with issues of cable access and routing that are common to today's high data rate networks and high performance cabling. It offers the user a simple, modular and easy-to-install system featuring smart, effective cable management options and built-in flexibility to cope with copper or optical cabling.

The combination of completely interchangeable cable retention gates, doors, fingers and accessories allows the user to customise OER to adapt his or her own specific needs. Also, reconfiguration and modification of the OER system is done easily in the field after the system is installed, which makes the OER a great choice for cable management needs now, and in the future.

- Reduced installation time.
- Network installations made easy.
- Maximising useable space and minimise footprint.
- Totally open constructions for ease of cross-patching.
- Flexible configuration.
- Standard cage nut fixings.
- Size options include 30U and 45U.

## Applications:

- Small, corporate and internet datacentres.
- Installation suitable for use with approved Brand-Rex copper and fibre patchcords, panels and cable management products.

## Mechanical specifications:

- Dimensions: 1466/2130 X 820 X 380mm W X H X D
- Weight: 50/70Kg Max (Including Full Side Cable Management)

## ► OPEN ENTRY RACK

Part No:	Description:
<b>BR-DRCFRMOER30UA2</b>	Open Entry Rack 30U - 2 Post Frame
<b>BR-DRCFRMOER45UA2</b>	Open Entry Rack 45U - 2 Post Frame
<b>BR-DRCFRMOER30U12</b>	<b>Configuration 1</b> <i>Includes 1 x 30U OER, 2 x Open Entry Rack 6" Single Sided High Density Cable Management 30U</i>
<b>BR-DRCFRMOER45U22</b>	<b>Configuration 2</b> <i>Includes 1 x 45U OER, 2 x Open Entry Rack 6" Single Sided High Density Cable Management 45U</i>

## ► OPEN ENTRY RACK CABLE MANAGEMENT

Part No:	Description:
<b>BR-DRCSSCM30U2</b>	6" Single Sided High Density Cable Management 30U
<b>BR-DRCSSCM45U2</b>	6" Single Sided High Density Cable Management 45U
<b>BR-DRCFRM1UCM2</b>	1U 19" Finger Cable Management Bar
<b>BR-DRCFRM2UCM2</b>	19" Finger Cable Management Bar
<b>BR-DRCFRM3UCM2</b>	3U 19" Finger Cable Management Bar
<b>BR-DRCACCCMS001</b>	Cable Management Spools





# PANDUIT™

Panduit™ is a world-class developer and manufacturer of leading-edge datacom solutions. Networks Centre stock and distribute their Pan-Net™ and NetKey™ copper and optical cabling systems, as well as their overhead and under-floor cable routing systems: FiberRunner and GridRunner. We also distribute their range of cabinets, racks and cable management.

**PAN-NET™**

**NETKEY™**

**FIBERRUNNER™**

**GRIDRUNNER™**

## PAN-NET™ 96

- Copper 96
- Fibre 108
- QuickNet™ 111
- Opticom® 113
- Panzone™ 114
- Net-Access™ Cabinets & Accessories 117
- CoolBoot™ 118
- Cable Management 118

## NETKEY™ 120

- Cables 120
- Modules & Patchcords 121
- Connectors 122
- Patchcords & Pigtails 123
- Patch Panels 124
- Fibre Enclosures 126
- Face Plates 127
- Racks & Cable Management 129

## FIBERRUNNER™ 130

## GRIDRUNNER™ 133

- Baskets 133
- Brackets 133
- Accessories 133



# PAN-NET™ COPPER

Panduit™ offers end-to-end solutions for all twisted pair copper cabling applications. TX™ Copper Cabling Systems provide reliable network performance for the most demanding high-speed and bandwidth-demanding applications while exceeding the latest industry standards. Mini-Com™ Modules are interchangeable within Panduit™ modular patch panels, faceplates, and surface mount boxes to provide modular solutions for intermediate to high-density installations. A variety of colours enable colour-coding of connectivity for network segregation.

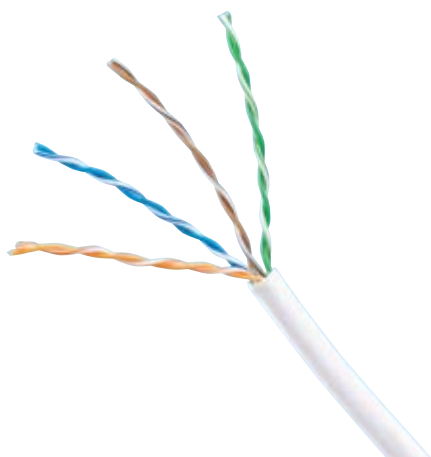
- Pre-terminated solution can be installed in 75% less time than field-terminated installations, eliminating the need for on-site bundling, terminating, and testing. Available at Networks Centre, call for more information.
- Plug pack assemblies facilitate quick and easy connection and disconnection of patchcords to a variety of switches, reducing time and cost associated when installing and maintaining active equipment. Available at Networks Centre, call for more information.
- Copper cable is designed to be installed with Panduit™ connectivity products (jack modules, pre-terminated

cassettes, patch panels, and patchcords) to provide a reliable, modular, end-to-end solution.

- Copper TG Style Jack Modules feature enhanced Giga-TX™ Technology optimising performance by maintaining cable pair geometry and eliminating conductor untwist; forward motion termination places no impact on critical internal components for maximum reliability.
- Patented angled patch panels facilitate proper bend radius control and minimise the need for horizontal cable managers, providing a high-density solution which conserves valuable rack space. The QuickNet™ Copper Cabling System is a pre-terminated solution with standard and custom options, designed to meet unique cabling requirements. Fast and simple to install, this high-density solution provides consistent network reliability and reduces on-site rework.
- TX™ Copper Cabling Systems are available in Category 6A, Category 6, and Category 5e performance levels and include STP and UTP copper cable, jack modules, patchcords and patch panels. Panduit™ solutions are designed with flexibility to support your growing and changing network requirements.

## CATEGORY 5E UTP

### ➤ TX5500 CATEGORY 5E UTP CABLE



UTP Cat5e general purpose cable. Conductors are 24 AWG construction with polyethylene insulation. The conductors are twisted in pairs and contained in a flame-retardant PVC jacket. Cable colour is Light Grey.

Part No:	Description:
<b>PT- PUC5504IG-EY</b>	UTP Category 5e cable PVC 305m. Light Grey

UTP Cat5e Low Smoke Zero Halogen cable. Conductors are 24 AWG construction with polyethylene insulation. The conductors are twisted in pairs and contained in a flame-retardant, low smoke, halogen free jacket. Cable colour is White.

Part No:	Description:
<b>PT-PUL5504WH-EY</b>	UTP Category 5e cable LSOH 305m. White

### ➤ MINI-COM™ CATEGORY 5E UTP TX™ JACKS



Cat5e, 8 position, 8 wire universal module. Exceeds the Cat5e TIA/EIA 568.B.2.1 standard. Modules utilise patented GIGA-TX™ Technology to optimise performance by reducing conductor untwist. Compatible with Mini-Com™ modular patch panels, faceplate and surface mount boxes. Mini-Com™ Cat5e modules are available in 13 colours for easy identification and future move, adds and changes and can be clearly identified with optional labels and icons.

Part No:	Description:
<b>PT-CJ5E88TG**</b>	Category 5e, RJ45, 8-position, 8-wire universal module Available in: AW (Arctic White), IW (Off White), EI (Electric Ivory), WH (White), IG (International Grey), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow) and VL (Violet) replace ** with the colour suffix



## ► DP STYLE 110 UTP PUNCHDOWN PATCH PANELS



Universal 24 port patch panels specifically designed to comply with Cat5e performance requirements. DP5e patch panels adopt a printed circuit board design with a punch down termination system. Wiring scheme T568A and T568B are clearly identified on the back of the panel. Write-on area on the front of the panel allows clear identification for easy installation and future moves, adds and changes. Panduit™ Punch down patch panels are available in angled versions, with 24 or 48 ports.

Part No:	Description:
<b>PT-DP245E88TGY</b>	24-port, Category 5e, patch panel with 24 RJ45, 8-position, 8-wire ports
<b>PT-DP485E88TGY</b>	48-port, Category 5e, patch panel with 48 RJ45, 8-position, 8-wire ports

## ► CATEGORY 5E PATCHCORDS

Enhanced Cat5e patchcords constructed with 24 AWG UTP stranded cable and enhanced modular plugs on both ends. Panduit™ Cat5e patchcords exceed TIA/EIA 568-B 2.1 Cat5e standard requirements.



### ► UTP PVC

Part No:	Description:
<b>PT-UTPCH1MY</b>	1m patchcord. Off white. UTP Category 5e
<b>PT-UTPCH1.5MY</b>	1.5m patchcord. Off white. UTP Category 5e
<b>PT-UTPCH2MY</b>	2m patchcord. Off white. UTP Category 5e
<b>PT-UTPCH3MY</b>	3m patchcord. Off white. UTP Category 5e
<b>PT-UTPCH4MY</b>	4m patchcord. Off white. UTP Category 5e
<b>PT-UTPCH5MY</b>	5m patchcord. Off white. UTP Category 5e

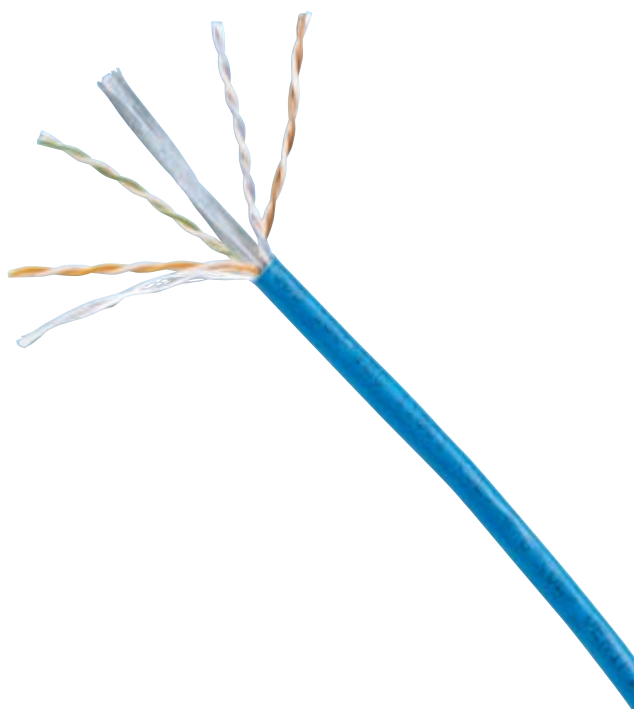
### ► UTP LSOH

Part No:	Description:
<b>PT-UTPCHL1MY</b>	1m patchcord. Off white. LSOH UTP Category 5e
<b>PT-UTPCHL1.5MY</b>	1.5m patchcord. Off white. LSOH UTP Category 5e
<b>PT-UTPCHL2MY</b>	2m patchcord. Off white. LSOH UTP Category 5e
<b>PT-UTPCHL2.5MY</b>	2.5m patchcord. Off white. LSOH UTP Category 5e
<b>PT-UTPCHL3MY</b>	3m patchcord. Off white. LSOH UTP Category 5e
<b>PT-UTPCHL5MY</b>	5m patchcord. Off white. LSOH UTP Category 5e



# CATEGORY 6 UTP

## ► TX6000™ UTP CABLE



- Exceeds requirements of ANSI/TIA-568-C.2 Category 6 and ISO 11801 2nd Edition Class E channel standards.
- Exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 6 component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Third party tested to comply with ANSI/TIA-568-C.2.
- Installation temperature range: 32°F to 122°F (0°C to 50°C).
- Operating temperature range: 14°F to 140°F (-10°C to 60°C).
- Characterised to 550MHz, 300MHz above the standard.
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Cable supplied in an easy payout EZBrake™ reel-in-a-box.

Part No:	Description:
<b>PT-PUC6004IG-EY</b>	UTP Category 6 cable PVC 305m. Light Grey
<b>PT-PUL6004WH-EY</b>	UTP Category 6 cable LSOH 305m. White

## ► MINI-COM™ CATEGORY 6 UTP TX™ JACKS



Cat6, 8 position, 8 wire universal module. Exceeds the Cat6 TIA/EIA 568.B.2.1 standard. Utilises patented GIGA-TX™ Technology to optimise performance by reducing conductor untwist. Compatible with Mini-Com™ modular patch panels, faceplate and surface mount boxes. Mini-Com™ Cat6 PLUS modules are available in 13 colours for easy identification and can be clearly identified with optional labels and icons.

Part No:	Description:
<b>PT-CJ688TG**</b>	Category 6, RJ45, 8-position, 8-wire universal module Available in: AW (Arctic White), IW (Off White), EI (Electric Ivory), WH (White), IG (International Grey), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow) and VL (Violet) replace ** with the colour suffix

## ► DP STYLE 110 UTP PUNCHDOWN PATCH PANELS



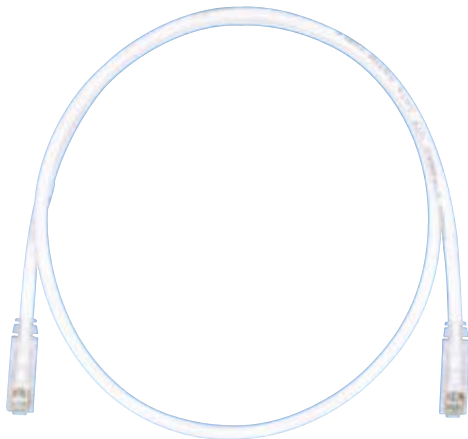
48 Universal 24 port patch panels specifically designed to supply with Cat6 performance requirements. Write-on area allows for clear identification for easy installation and future moves, adds or changes. The 24 or 48 port panels are also available in angled versions.

Part No:	Description:
<b>PT-DP24688TGY</b>	24-port, Category 6, patch panel with 24 RJ45, 8-position, 8-wire ports
<b>PT-DP48688TGY</b>	48-port, Category 6, patch panel with 48 RJ45, 8-position, 8-wire ports





## ► CATEGORY 6 PATCHCORDS UTP PVC



### ► UTP PVC

Part No:	Description:
<b>PT-UTPSP1MY</b>	1m patchcord. Grey. UTP Category 6
<b>PT-UTPSP1.5MY</b>	1.5m patchcord. Grey. UTP Category 6
<b>PT-UTPSP2MY</b>	2m patchcord. Grey. UTP Category 6
<b>PT-UTPSP3MY</b>	3m patchcord. Grey. UTP Category 6.
<b>PT-UTPSP4MY</b>	4m patchcord. Grey. UTP Category 6
<b>PT-UTPSP5MY</b>	5m patchcord. Grey. UTP Category 6

### ► UTP LSOH

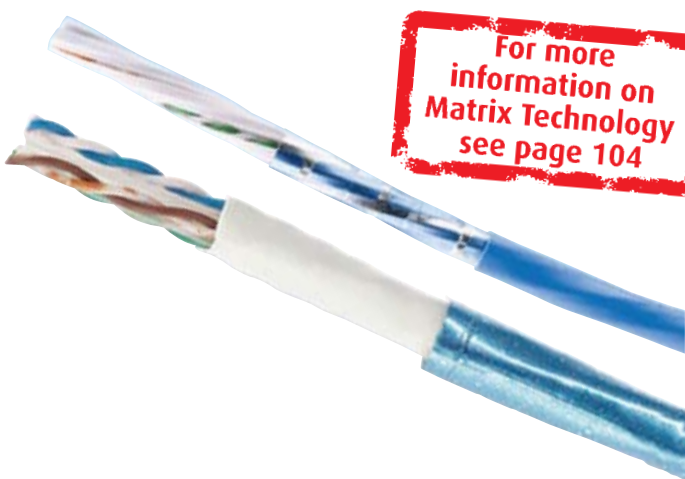
Part No:	Description:
<b>PT-UTPSPL1.5MY</b>	1.5m patchcord. Off white. LSOH UTP Category 6
<b>PT-UTPSPL2MY</b>	2m patchcord. Off white. LSOH UTP Category 6
<b>PT-UTPSPL2.5MY</b>	2.5m patchcord. Off white. LSOH UTP Category 6
<b>PT-UTPSPL3MY</b>	3m patchcord. Off white. LSOH UTP Category 6
<b>PT-UTPSPL5MY</b>	5m patchcord. Off white. LSOH UTP Category 6

### ► SOLID CORE UTP LSOH

Part No:	Description:
<b>PT-UPLBU5MY</b>	5m solid core patchcord. Category 6. LSOH
<b>PT-UPLBU7MY</b>	7m solid core patchcord. Category 6. LSOH
<b>PT-UPLBU10MY</b>	10m solid core patchcord. Category 6. LSOH
<b>PT-UPLBU30MY</b>	30m solid core patchcord. Category 6. LSOH
<b>PT-UPLBU40MY</b>	40m solid core patchcord. Category 6. LSOH

# CATEGORY 6A UTP SYSTEM

## ► TX6A™ 10GIG™ UTP



Part No:	Description:
<b>PT-PUL6A04WH-EG</b>	UTP Category 6a 10GIG™ LSOH 305m, White
<b>PT-PUL6ASD04WH-EG</b>	Category 6A, low smoke zero halogen (LSZH), 4-pair, UTP copper cable. Copper conductors are 26 AWG with HDPE insulation small diameter

- Exceeds requirements of ANSI/TIA-568-C.2 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class EA channel
- Exceeds requirements of ANSI/TIA-568-C.2 Category 6A and IEC 61156-5 Category 6A component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Patent-pending cable with MaTriX Technology suppresses alien crosstalk with enhanced internal electrical performance.
- Superior headroom warranty provides the highest margins above the industry standard for both electrical and alien crosstalk performance.
- Round cable design with reduced cable diameter enables improved cable bundling and optimises fill capacity.
- TX6A™ 10Gig™ UTP Copper Cable available for distances up to 100 metres; cable diameter 7.6mm nominal.
- TX6A-SD™ 10Gig™ UTP Copper Cable available for distances up to 70 metres, offering smaller cable diameter comparable to Category 6 cable; cable diameter 6.1mm nominal.
- Installation temperature range: 32°F to 140°F (0°C to 60°C).
- Operating temperature range: -4°F to 167°F (-20°C to 75°C).

## ➤ MINI-COM™ CATEGORY 6A UTP 10GIG™ TX™ JACKS



- Exceed requirements of ANSI/TIA-568-C.2 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class EA channel standards.
- Exceed ANSI/TIA-568-C.2 Category 6A and IEC 61156-5 Category 6A component standards.
- Meet requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Superior headroom warranty provides the highest margins above the industry standard for both electrical and alien crosstalk performance.
- Jack modules are colour-coded to visually distinguish connections to prevent unintentional mating with unlike keyed or non-keyed modular plugs accommodating more discrete networks.
- Each jack is 100% tested to ensure NEXT and RL performance and is individually serialised for traceability.
- Utilise patent-pending enhanced Giga-TX™ Technology for jack terminations which optimises performance by maintaining cable pair geometry and eliminating conductor untwist.
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilising a smooth forward motion without impact on critical internal components for maximum reliability.
- Contacts plated with 50 micro-inches of gold for superior

performance.

- Optional termination tool (EGJT) reduces termination time by 25%, ideal for high volume installations.
- Can be re-terminated a minimum of twenty times.
- Blue termination cap designates Category 6A performance and provides positive strain relief; helps control cable bend radius and securely retains wires.
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded twisted pair cable.
- Universal termination cap is colour-coded for T568A and T568B wiring schemes.
- Accept 6 and 8-position modular plugs without damage.
- Can be clearly identified with optional labels and icons.
- Compatible with Mini-Com™ modular patch panels, faceplates, and surface mount boxes.
- Optional RJ45 blockout device blocks out unauthorised access to jack modules and potentially harmful foreign objects, saving time and money associated with data security breaches, network downtime, repair, and hardware replacement.
- Optional dust cap keeps out dust and debris while not in use.

Part No:	Description:
<b>PT-CJ6X88TG**</b>	Category 6a, RJ45, 10 Gb/s, 8-position, 8-wire universal module
Available in: AW (Arctic White), IW (Off White), EI (Electric Ivory), WH (White), IG (International Grey), BL (Black), OR (Orange), RD (Red), BU (Blue), GR (Green), YL (Yellow) and VL (Violet) replace ** with the colour suffix	

## ➤ DP STYLE 110 UTP PUNCHDOWN PATCH PANELS



- Exceed requirements of ANSI/TIA-568-C.2 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class EA channel standards.
- Exceed requirements of ANSI/TIA-568-C.2 Category 6A and IEC 61156-5 Category 6A component standards.
- Meet requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Each port is 100% tested to ensure NEXT and RL performance and is individually serialised to support traceability.
- Utilise 110 punchdown termination on back panel and include retention cap for each port.

- Each port contains a universal label that is colour-coded for T568A and T568B wiring schemes.
- Contacts plated with 50 micro-inches of gold for superior performance.
- Angled versions allow for higher density applications by easily routing the patchcords to each side of the panel eliminating the need for horizontal cable management.
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded twisted pair cable.
- Mount to standard EIA 19" rack or 23" racks with optional extender bracket.
- Write-on areas for port and panel identification.
- Can be clearly identified with labels and icons.
- Optional label kits (DPLK24 and DPLK48) contain adhesive label holder and labels for easy port and panel identification.

Part No:	Description:
<b>PT-DP246X88TGY</b>	24-port, Category 6a, 10 Gb/s patch panel with 24 RJ45 8-position, 8-wire ports
<b>PT-DP486X88TGY</b>	48-port, Category 6a, 10 Gb/s patch panel with 48 RJ45 8-position, 8-wire ports



Can't find what you're looking for? Then contact us...

## ➤ CATEGORY 6A PATCHCORDS UTP



**For more information on Matrix Technology see page 104**

- Exceed requirements of ANSI/TIA-568-C.2 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class EA channel standards.
- Meet requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- MaTriX Technology provides superior suppression of alien crosstalk (PSANEXT and PSAACRF).
- Superior headroom warranty provides the highest margins above the industry standard for both electrical and alien crosstalk performance.
- Colour-coded, keyed modular plugs mechanically and visually distinguish connections to prevent unintentional mating with unlike keyed or non-keyed jack modules accommodating more discrete networks.
- Each patchcord is 100% performance tested and wired to T568B.
- Plug meets all applicable ANSI/TIA-968-A requirements and exceeds IEC 60603-7 specifications.
- Slender strain relief boot provides easy access in high density applications.
- Plug uses an integral pair manager to optimise performance and consistency by reducing untwisting of conductors within the plug.
- Plug performance in centre of TIA/EIA component range, ensuring interoperability and 10GBASE-T Ethernet channel performance.
- Labels on patchcords provide identification of performance level, length, and quality control number.
- Patented tangle-free latch prevents snags and provides easy release, saving time on frequent moves, adds, and changes.

- Optional patchcord colour bands snap on and off individual patch cables offering endless colour-coding options.
- Optional RJ45 lock-in device blocks unauthorised removal of cable, IP phone, other networking equipment, or critical connection.

## ➤ SOLID CORE UTP

Part No:	Description:
<b>PT-UAPLWH7M</b>	7m patchcord. Off white. LSOH UTP Category 6a
<b>PT-UAPLWH10M</b>	10m patchcord. Off white. LSOH UTP Category 6a
<b>PT-UAPLWH15M</b>	15m patchcord. Off white. LSOH UTP Category 6a
<b>PT-UAPLWH20M</b>	20m patchcord. Off white. LSOH UTP Category 6a
<b>PT-UAPLWH30M</b>	30m patchcord. Off white. LSOH UTP Category 6a
<b>PT-UAPLWH40M</b>	40m patchcord. Off white. LSOH UTP Category 6a

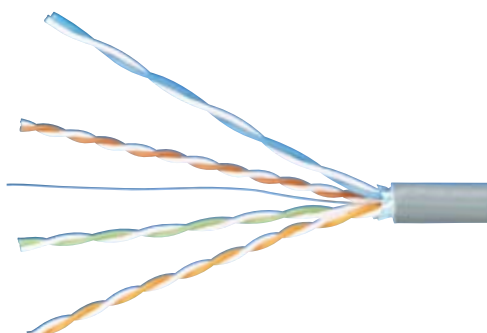
## ➤ UTP

Part No:	Description:
<b>PT-UTP6X1MY</b>	1m patchcord. Grey. Category 6/Category 6a UTP
<b>PT-UTP6X2MY</b>	2m patchcord. Grey. Category 6/Category 6a UTP
<b>PT-UTP6X3MY</b>	3m patchcord. Grey. Category 6/Category 6a UTP
<b>PT-UTP6X5MY</b>	5m patchcord. Grey. Category 6/Category 6a UTP

## ➤ UTP PATCHCORDS WITH MATRIX TECHNOLOGY

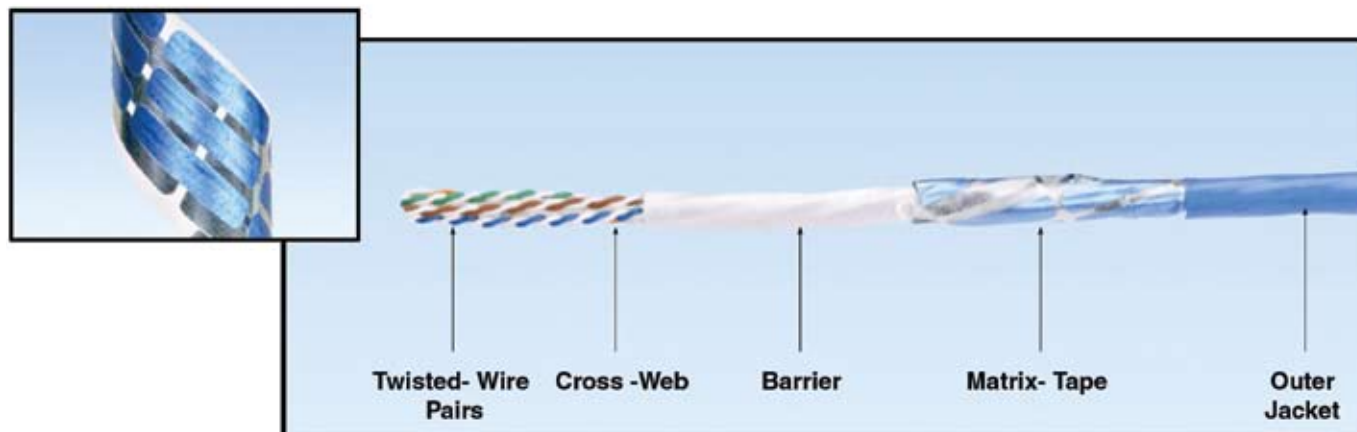
Part No:	Description:
<b>PT-UTP6A1MBU</b>	1m Copper patchcord, Blue UTP cable Category 6A
<b>PT-UTP6A3MBU</b>	3m Copper patchcord, Blue UTP cable Category 6A
<b>PT-UTP6A5MBU</b>	5m Copper patchcord, Blue UTP cable Category 6A
<b>PT-UTP6A10MBU</b>	10m Copper patchcord, Blue UTP cable Category 6A

## ➤ CATEGORY 5E SHIELDED



Part No:	Description:
<b>PT-PFC5504LG-E</b>	FTP Category 5e cable PVC 305m. Light Grey
<b>PT-PFL5504DG-E</b>	FTP Category 5e LSOH 305m. Dark Grey

The end-to-end system has been engineered to enable long and short cable channels, meet the requirements of the highest density datacentre applications, operate in advanced PoE applications and allow for the co-mingling of other category cables. The key to this technology is a tape placed directly beneath the outer jacket on which small, discontinuous metallic elements are positioned in a matrix pattern. The innovative matrix tape technology suppresses both electric and magnetic coupling between adjacent cables while reducing Category 6a UTP cable cross section area by nearly 20%. This new cable design also incorporates a barrier film beneath the matrix tape which improves overall attenuation performance of the cable while minimising coupling between the twisted pairs and tape.



PANDUIT™ TX6A™ Category 6A cable with matrix tape (inset) and barrier film exposed.

## WYR-GRID® Overhead Cable Tray Routing System

### Quick to Install

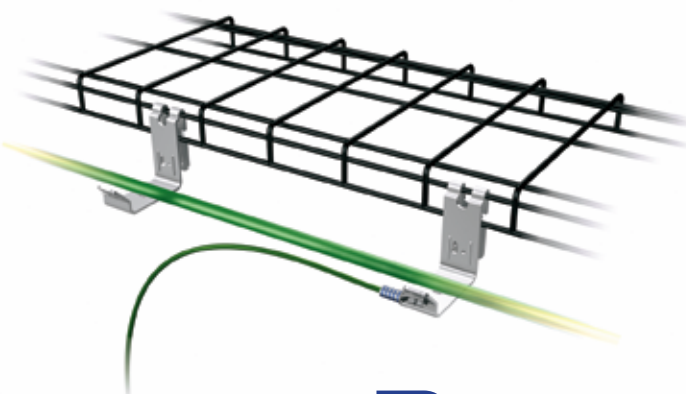
In today's fast paced environment, every project is on a tight schedule and needs to be completed NOW. So, it is important that infrastructure components can be installed quickly and with as little delay as possible. That is where the Panduit™ Wyr-Grid® Overhead Cable Tray Routing System provides a true advantage. It is designed and engineered to assemble in significantly less time than other wire basket and ladder rack systems. It will save you valuable time.

### Robust Construction and Support

In today's typical build out, every project needs a secure platform that can support and protect the cabling infrastructure. So, it is important that the cable routing pathways are strong enough to support the cable loads that will be encountered today and in the future. The Panduit™ Wyr-Grid® Overhead Cable Tray Routing System has been designed and tested to comply with industry standards to provide the necessary load bearing strength. In addition, Wyr-Grid® Pathways offer a greater strength to weight ratio compared to other wire basket systems. This advantage will provide you with a robust cable support structure.

### Easy to Work With

Every project has complications and issues that unexpectedly arise and need to be resolved. It is important that the infrastructure components do not add to this confusion via large part number lists and difficult to understand assemblies. This is another advantage of the Panduit™ Wyr-Grid® Overhead Cable Tray Routing System. A focused product offering with minimal components, along with design tools, allows specifiers to quickly understand and identify the necessary parts and create accurate bills of materials. It will simplify your project.



*A Global Leader in Innovative Cabling and Networking Solutions*

**PANDUIT™**



Can't find what you're looking for? Then contact us...



## ➤ MINI-COM™ CATEGORY 5E STP TX™ JACKS



- Exceed requirements of ANSI/TIA-568-C.2 Category 5e, IEEE 802.3an-2006, and ISO 11801 Class D channel standards.
- Exceed requirements of ANSI/TIA-568-C.2 Category 5e and IEC 61156-5 Category 5e component standards.
- Meet requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Each jack is 100% tested to ensure NEXT and RL performance and is individually serialised for traceability.
- Utilise patent-pending enhanced Giga-TX™ Technology for jack terminations which optimises performance by maintaining cable pair geometry and eliminating conductor untwist.
- Fully grounded and bonded to patch panel when installed in Panduit™ All Metal Modular Patch Panel.
- Contacts plated with 50 micro-inches of gold for superior performance.
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilising a smooth forward motion without impact on critical internal components for maximum reliability.

- Optional termination tool (EGJT) reduces termination time by 25%, ideal for high volume installations.
- Can be re-terminated a minimum of twenty times.
- Red termination cap designates Category 5e performance and provides positive strain relief; helps control cable bend radius and securely retains wires.
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded shielded twisted pair cable.
- Universal termination cap is colour-coded for T568A and T568B wiring schemes.
- Integrated strain relief with wire cap provides 360° conductive path for grounding.
- 0.187 in. tab provides conductive path for grounding individual jacks.
- Accept 6 and 8-position modular plugs without damage.
- Can be clearly identified with optional labels and icons.
- Compatible with Mini-Com™ modular patch panels, faceplates, and surface mount boxes.
- Optional RJ45 blockout device blocks out unauthorised access to jack modules and potentially harmful foreign objects, saving time and money associated with data security breaches, network downtime, repair, and hardware replacement.
- Optional dust cap keeps out dust and debris while not in use.

Part No:	Description:
<b>PT-CJS5E88TGY</b>	Category 5e, RJ45, 8-position, 8-wire universal shielded black module with integrated shield

## ➤ CATEGORY 5E STP PATCHCORDS



- Exceed ANSI/TIA-568-C.2 Category 5e and ISO 11801 Class D standards.
- Meet requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Colour-coded, keyed modular plugs mechanically and visually distinguish connections to prevent unintentional mating with unlike keyed or non-keyed jack modules accommodating more discrete networks.
- Each patchcord is 100% performance tested and wired T568A.
- Constructed of Category 5e, 26 AWG, STP stranded, LSZH/CM cable and Pan-Plug™ Shielded Modular Plugs; plug contacts plated with 50 microinches of gold for superior performance.

- Plug meets all applicable ANSI/TIA/EIA-968-A requirements and exceeds IEC 60603-7 specifications.
- Patented tangle-free latch prevents snags and provides easy release, saving time on frequent moves, adds, and changes.
- Labels on patchcords provide identification of performance level, length, and quality control number.
- Optional patchcord colour bands snap on and off individual patch cables offering endless colour-coding options.
- Optional RJ45 plug lock-in device blocks unauthorised removal of cable, IP phone, other networking equipment, or critical connection.

Part No:	Description:
<b>PT-STPCH1MBBL</b>	1m patchcord grey + black boots Category 5e STP
<b>PT-STPCH2MBBL</b>	2m patchcord grey + black boots Category 5e STP
<b>PT-STPCH3MBBL</b>	3m patchcord grey + black boots Category 5e STP
<b>PT-STPCH5MBBL</b>	5m patchcord grey + black boots Category 5e STP

For other boot colours replace **BL** with suffix **BU, GR, RD, YL**.

# CATEGORY 6 SHIELDED

## ► TX6000™ FTP CABLE



Part No:	Description:
<b>PT-PFC6004LG-ED</b>	FTP Category 6 PVC 500m. Light Grey
<b>PT-PFL6004DG-ED</b>	FTP Category 6 LSOH 500m. Dark Grey.

## ► TX6000™ S/FTP CABLE



Part No:	Description:
<b>PT-PSFL6004DG-ED</b>	FTP Category 6 LSOH. 500m. Dark Grey

## ► MINI-COM™ CATEGORY 6 STP TX™ JACKS



- Exceed requirements of ANSI/TIA-568-C.2 Category 6, IEEE 802.3an-2006, and ISO 11801 Class E channel standards.
- Meet requirements of IEEE 802.af and IEEE 802.3at for PoE applications.
- Each jack is 100% tested to ensure NEXT and RL performance and is individually serialised for traceability .
- Jack modules are colour-coded to visually distinguish connections to prevent unintentional mating with unlike keyed or non-keyed modular plugs accommodating more discrete networks.
- Utilise patent-pending enhanced Giga-TX™ Technology for jack terminations which optimises performance by maintaining cable pair geometry and eliminating conductor untwist.
- Fully grounded and bonded to patch panel when installed in Panduit™ All Metal Modular Patch Panel.
- Contacts plated with 50 micro-inches of gold for superior performance.
- Optional termination tool (EGJT) reduces termination time by 25%, ideal for high volume installations.

- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability.
- Can be re-terminated a minimum of twenty times.
- Off-white termination cap designates Category 6 performance and provides positive strain relief; helps control cable bend radius and securely retains wires.
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded shielded twisted pair cable.
- Universal termination cap is colour-coded for T568A and T568B wiring schemes.
- Integrated strain relief with wire cap provides 360° conductive path for grounding.
- 0.187 in. tab provides conductive path for grounding individual jacks.
- Accept 6 and 8-position modular plugs without damage.
- Can be clearly identified with optional labels and icons.
- Compatible with Mini-Com™ modular patch panels, faceplates, and surface mount boxes.
- Optional RJ45 blackout device blocks out unauthorised access to jack modules and potentially harmful foreign objects, saving time and money associated with data security breaches, network downtime, repair, and hardware replacement.
- Optional dust cap keeps out dust and debris while not in use.

Part No:	Description:
<b>PT-CJS688TGY</b>	Category 6, RJ45, 8-position, 8-wire universal shielded black module with integral shield

## ► CATEGORY 6/CATEGORY 6A STP PATCHCORDS



Part No:	Description:
<b>PT-STP6X1MBL</b>	1m patchcord grey + black boots Category 6/ Category 6aSTP
<b>PT-STP6X2MBL</b>	2m patchcord grey + black boots Category 6/ Category 6aSTP
<b>PT-STP6X3MBL</b>	3m patchcord grey + black boots Category 6/ Category 6aSTP
<b>PT-STP6X5MBL</b>	5m patchcord grey + black boots Category 6/ Category 6aSTP

Also available in: **BU, GR, OR, RD, YL.**

For other cable colours, replace **BL** with new suffix.



Can't find what you're looking for? Then contact us...

## ➤ 10 GIG™ U/FTP CABLE



- Exceeds requirements of ANSI/TIA-568-C.2, IEEE 802.3-2006, and ISO 11801 Class EA Category 6A channel standards.
- Exceeds requirements of ANSI/TIA-568-C.2 and IEC 61156-5 Category 6A component standards.
- Meets requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Internal drain wire facilitates grounding.
- Cable diameter: 7.1mm (0.278 in.) nominal.

- Installation temperature range: 0°C to 50°C (32°F to 122°F).
- Operating temperature range: -20°C to 60°C (-4°F to 140°F).
- Descending length cable markings enable easy identification of remaining cable which reduces installation time and cable scrap.
- Cable supplied on a reel.

Part No:	Description:
<b>PT-PUFL6X04WH-KD</b>	Category 6a 4-pair U/FTP shielded copper cable LSOH 500m - White

## ➤ TX7000™ S/STP CABLE

Part No:	Description:
<b>PT-PSL7004DG-ED</b>	TX7000™ Category 7 SSTP Cable LSOH 500m - Dark Grey

## ➤ MINI-COM™ CATEGORY 6A 10GIG™ STP JACKS



- Exceed requirements of ANSI/TIA-568-C.2 Category 6A, IEEE 802.3an-2006, and ISO 11801 Class EA channel standards.
- Exceed requirements of ANSI/TIA-568-C.2 Category 6A and IEC 61156-5 Category 6A component standards.
- Meet requirements of IEEE 802.3af and IEEE 802.3at for PoE applications.
- Each jack is 100% tested to ensure NEXT and RL performance and is individually serialised for traceability.
- Utilise patent-pending enhanced Giga-TX™ Technology for jack terminations which optimises performance by maintaining cable pair geometry and eliminating conductor untwist.
- Fully grounded and bonded to patch panel when installed in Panduit™ All Metal Modular Patch Panel.
- Contacts plated with 50 microinches of gold for superior performance.
- No punchdown tool required; termination tool (EGJT) ensures conductors are fully terminated by utilizing a smooth forward motion without impact on critical internal components for maximum reliability.
- Optional termination tool (EGJT) reduces termination time by 25%, ideal for high volume installations.

- Can be re-terminated a minimum of twenty times.
- Blue termination cap designates 10Gig™ Category 6A performance and provides positive strain relief; helps control cable bend radius and securely retains wires.
- Terminate 4-pair, 22 – 26 AWG, 100 ohm, solid or stranded shielded twisted pair cable.
- Universal termination cap is colour-coded for T568A and T568B wiring schemes.
- Integrated strain relief with wire cap provides 360° conductive path for grounding.
- .187" grounding tab provides conductive patch for grounding individual jacks.
- Accept 6 and 8-position modular plugs without damage.
- Can be clearly identified with optional labels and icons.
- Compatible with Mini-Com™ Modular Patch Panels, Faceplates, and Surface Mount Boxes.
- Optional RJ45 Blockout device blocks out unauthorised access to jack modules and potentially harmful foreign objects, saving time and money associated with data security breaches, network downtime, repair and hardware replacement.
- Optional Dust cap keeps out dust and debris while not in use.
- Optional RJ45 Lock-in device blocks unauthorised removal of cable, IP phone, other networking equipment or critical connection.

Part No:	Description:
<b>PT-CJS6X88TGY</b>	Category 6a, RJ45, 10 Gb/s, 8-position, 8-wire universal shielded black module with integral shield

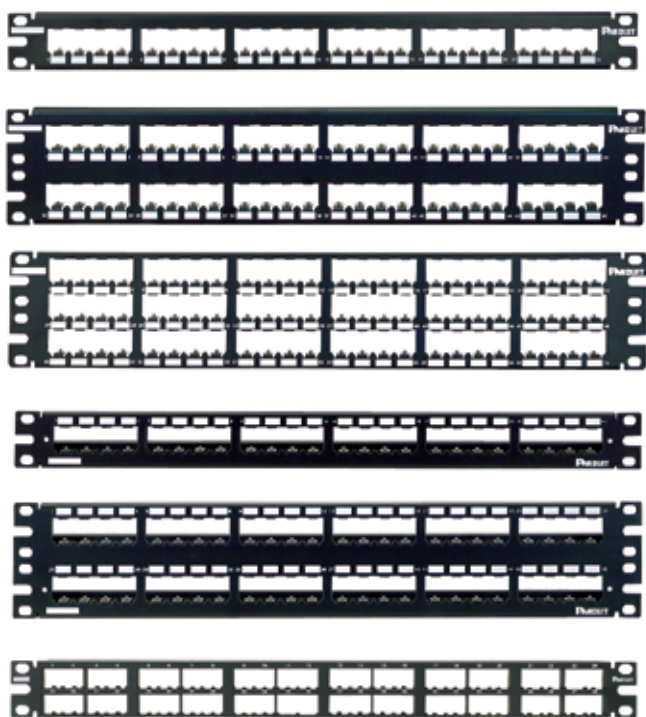
## ➤ CATEGORY 6/CATEGORY 6A STP PATCHCORDS



Also available in:  
**BU, GR, OR, RD, YL.**  
For other cable colours,  
replace **BL** with new suffix.

Part No:	Description:
<b>PT-STP6X1MBL</b>	1m patchcord grey + black boots Category 6/ Category 6aSTP
<b>PT-STP6X2MBL</b>	2m patchcord grey + black boots Category 6/ Category 6aSTP
<b>PT-STP6X3MBL</b>	3m patchcord grey + black boots Category 6/ Category 6aSTP
<b>PT-STP6X5MBL</b>	5m patchcord grey + black boots Category 6/ Category 6aSTP

## ➤ ALL METAL PATCH PANELS



- Accept Mini-Com™ Modules for shielded applications.
- Provide write-on areas for port identification.
- CPT removal tool allows easy moves, adds, and changes of shielded jack modules.
- Mount to standard TIA/EIA 19" rack or 23" racks with optional extender bracket.

Part No:	Description:
<b>PT-CP24BLY</b>	24-port all metal modular patch panel. 1U. (for shielded jacks only)
<b>PT-CP48BLY</b>	48-port all metal modular patch panel. 1U. (for shielded jacks only)
<b>PT-CP72BLY</b>	72-port all metal modular patch panel 2U Rear cable management is required to prevent twisting. (for shielded jacks only)
<b>PT-CP24WSBLY</b>	Modular 24 port patch panel unloaded + strain relief bar. 1U. (for shielded jacks only)
<b>PT-CP48WSBLY</b>	Modular 48 port patch panel unloaded + strain relief bar. 2U. (for shielded jacks only)
<b>PT-CPP48HDWBLY</b>	Modular patch panel 48 port unloaded. 1U

## ➤ ALL METAL ANGLED PATCH PANELS (FOR SHIELDED JACKS ONLY)



Part No:	Description:
<b>PT-CPA24BLY</b>	Modular angled 24 port patch panel unloaded. 1U.
<b>PT-CPA48BLY</b>	Modular angled 48 port patch panel unloaded. 2U.
<b>PT-CPA72BLY</b>	Modular angled 72 port patch panel unloaded. 2U.

## ➤ PATCH PANELS - PLASTIC



Part No:	Description:
<b>PT-CPP24WBLY</b>	Modular patch panel with plastic front unloaded 24 port. 1U
<b>PT-CPP48WBLY</b>	Modular patch panel with plastic front unloaded 48 port. 2U
<b>PT-CPPL24WBLY</b>	Modular patch panel with plastic front unloaded 24 port. 1U + Label





## ► ANGLED PATCH PANELS



Part No:	Description:
<b>PT-CPPLA24WBL</b>	Modular angled 24 port patch panel unloaded. 1U
<b>PT-CPPLA48WBL</b>	Modular angled 48 port patch panel unloaded. 2U.
<b>PT-CPPLA72WBL</b>	Modular angled 72 port patch panel unloaded. 2U

## ► UK FACEPLATES



- Individual modules snap in and out of provided insert.
- Single or double gang configurations.
- Excellent for copper and fibre applications.
- Shutters protect modules when not in use.

Part No:	Description:
<b>PT-CFPUKS2SAW</b>	86 x 86mm single gang faceplate frame and one 1/2 sloped shuttered module insert. Depth to rear of module: 18.0mm.
<b>PT-CFPUKS4SAW-2GY</b>	86 x 146mm double gang faceplate frame and two 1/2 sized sloped shuttered module inserts. Depth to rear of modules: 18.0mm
<b>PT-CM6CSAW-X</b>	Shuttered module snaps into standard UK IJU6C floorbox mounting plates, faceplates and patch panels and holds a single Mini-Com™ module. Depth to rear of modules (copper): 29.0mm

Available in: IW - International White and WH- White  
(For other colours, replace **AW** with either **IW** or **WH**).

## ► SURFACE MOUNT BOXES

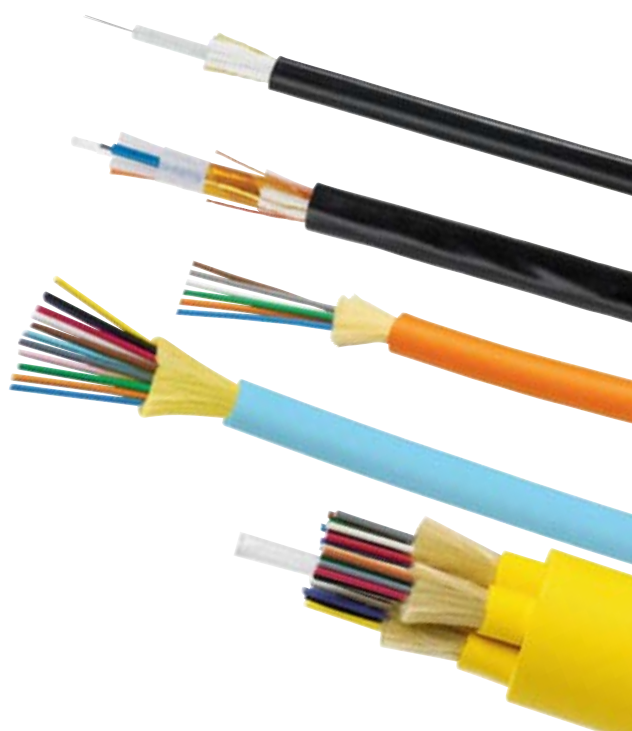


- Accept Mini-Com™ Modules for STP and UTP, fibre optic, and audio/video, which snap in and out for easy moves, adds, and changes.
- Mount easily with supplied mounting screws, adhesive tape, or optional magnet (CBM-X).
- Cable entry from side and rear knockouts and from opening in centre of base.
- CBXJ2 and CBX2 include built-in removable blank to add a second module.
- Optional adhesive labels available.

Part No:	Description:
<b>PT-CBX2AW-AY</b>	Mini-Com™ 2 port surface mount box
<b>PT-CBX4AW-AY</b>	Mini-Com™ 4 port surface mount box
<b>PT-CBXF6AW-AY</b>	Mini-Com™ 6 port surface mount box with fibre spool
<b>PT-CBXF12AW-AY</b>	Mini-Com™ 12 port surface mount box with fibre spool

Also available in black. Please call for more information.

## ► OPTI-CORE™ INTERNAL FIBRE CABLE



- Used in intra-building backbone, building backbone, and horizontal installations for riser (OFNR), plenum (OFNP), and general-purpose environments
- Available in 6, 12, and 24-fibre counts in a "single jacket" design, and in 36, 48, 72, 96 and 144-fibre counts in a "subunit" design
- Multimode (OM4, OM3, OM2, and OM1) and singlemode (OS1/OS2) fibre available
- Sheath markings provide positive identification, quality traceability, and length verification
- Cable design and flexible buffer tubes allow for quick breakout and ease of routing
- 900µm standards-based colour-coded buffer coating protects fibres during handling and allows for easy identification and stripping
- Opti-Core® 10Gig™ Fibre Optic Cable is designed to support network transmission speeds up to 10 Gb/s for link lengths up to 300 metres for OM3 and up to 550 metres for OM4 with an 850nm source per IEEE 802.3ae 10 GbE standard; backward compatible for use with all 50/125µm system requirements

## ► INTERNAL FIBRE CABLE

Part No:	Description:
<b>PT-FPDL608</b>	Fibre LSZH 62.5im distribution tight buffer 8 fibre count cable. Orange.
<b>PT-FPDL612</b>	Fibre LSZH 62.5im distribution tight buffer 12 fibre count cable. Orange.
<b>PT-FPDL624</b>	Fibre LSZH 62.5im distribution tight buffer 24 fibre count cable. Orange.
<b>PT-FPDL508</b>	Fibre LSZH 50im distribution tight buffer 8 fibre count cable. Orange.
<b>PT-FPDL512</b>	Fibre LSZH 50im distribution tight buffer 12 fibre count cable. Orange.
<b>PT-FPDL524</b>	Fibre LSZH 50im distribution tight buffer 24 fibre count cable. Orange.
<b>PT-FQDLX08</b>	Fibre LSZH 50im 10 gig distribution tight buffer 8 fibre count cable. Aqua.
<b>PT-FQDLX12</b>	Fibre LSZH 50im 10 gig distribution tight buffer 12 fibre count cable. Aqua.
<b>PT-FQDLX24</b>	Fibre LSZH 50im 10 gig distribution tight buffer 24 fibre count cable. Aqua.
<b>PT-FPDL908</b>	Fibre LSZH SM distribution tight buffer 8 fibre count cable. Yellow.
<b>PT-FPDL912</b>	Fibre LSZH SM distribution tight buffer 12 fibre count cable. Yellow.
<b>PT-FPDL924</b>	Fibre LSZH SM distribution tight buffer 24 fibre count cable. Yellow.

## ► INTERNAL/EXTERNAL FIBRE CABLE

Part No:	Description:
<b>PT-FPCL608</b>	Fibre LSZH 62.5im central loose tube 8 fibre count cable. Black.
<b>PT-FPCL612</b>	Fibre LSZH 62.5im central loose tube 12 fibre count cable. Black.
<b>PT-FPCL624</b>	Fibre LSZH 62.5im central loose tube 24 fibre count cable. Black.
<b>PT-FPCL508</b>	Fibre LSZH 50im central loose tube 8 fibre count cable. Black.
<b>PT-FPCL512</b>	Fibre LSZH 50im central loose tube 12 fibre count cable. Black.
<b>PT-FPCL524</b>	Fibre LSZH 50im central loose tube 24 fibre count cable. Black.
<b>PT-FQCLX08</b>	Fibre LSZH 50im 10 gig central loose tube 8 fibre count cable. Black.
<b>PT-FQCLX12</b>	Fibre LSZH 50im 10 gig central loose tube 12 fibre count cable. Black.
<b>PT-FQCLX24</b>	Fibre LSZH 50im 10 gig central loose tube 24 fibre count cable. Black.
<b>PT-FPCL908</b>	Fibre LSZH SM central loose tube 8 fibre count cable. Black.
<b>PT-FPCL912</b>	Fibre LSZH SM central loose tube 12 fibre count cable. Black.
<b>PT-FPCL924</b>	Fibre LSZH SM central loose tube 24 fibre count cable. Black.



## ► FIBRE PATCHCORDS



SC TO SC PATCHCORD



LC TO LC PATCHCORD



SC TO LC PATCHCORD



LC TO LC PATCHCORD

- Pass all TIA/EIA-568-B.3 performance requirements.
- 100% factory inspected end face geometry in compliance with Telcordia GR-326-CORE, Issue 3.
- Typical insertion loss per connection: 0.25dB.
- UPC polished (55dB minimum return loss).
- Factory terminated and 100% tested for insertion loss and return loss.

- Insertion loss and return loss data recorded for every singlemode patchcord.
- Lifetime traceability of test data to a Q.C. number on each patchcord.
- Highest quality flame retardant fibre optic cable with tight-buffered coating on each optical fibre.

Part No:	Description:
<b>PT-F9LD3-3M1</b>	SC-SC 1M DUPLEX 9-125UM
<b>PT-F6LD3-3M1</b>	SC-SC 1M DUPLEX 62.5-125UM
<b>PT-FXLD3-3M1</b>	SC-SC 1M DUPLEX 50-125UM. OM3
<b>PT-F5LD3-3M1</b>	SC-SC 1M DUPLEX 50-125UM
<b>PT-F9LE3-10M1</b>	SC-LC 1M DUPLEX 9-125UM
<b>PT-F6LE3-10M1</b>	SC-LC 1M DUPLEX 62.5-125UM
<b>PT-FXLE3-10M1</b>	SC-LC 1M DUPLEX 50-125UM. OM3
<b>PT-F5LE3-10M1</b>	SC-LC 1M DUPLEX 50-125UM
<b>PT-F9LE10-10M1</b>	LC-LC 1M DUPLEX 9-125UM
<b>PT-F6LE10-10M1</b>	LC-LC 1M DUPLEX 62.5-125UM
<b>PT-FXLE10-10M1</b>	LC-LC 1M DUPLEX 50-125UM. OM3
<b>PT-F5LE10-10M1</b>	LC-LC 1M DUPLEX 50-125UM

Replace **1** with required length, eg **2** = 2 metres.

## ► FIBRE PIGTAILS



LC PIGTAIL



SC PIGTAIL



ST PIGTAIL

- Pass all TIA/EIA-568-B.3 performance requirements.
- Insertion loss per connection: 0.10dB typical; 0.30dB maximum.
- Factory terminated and 100% tested for insertion loss.
- Insertion loss data recorded for every multimode patchcord.
- Lifetime traceability of test data to a Q.C. number on each pigtail.

### Additional lengths and availability:

Patchcords are available in 1 – 10 metre lengths in 1 metre increments, and 15, 20, 25 and 30 metre lengths. Pigtails are available in 1, 2, and 3 metre lengths. Ex: To order lengths other than 1 metre, replace the 1 after the M (F6D2-2M1Y) with the desired length (FF6D2-2M2Y for 2 metre length). The above lengths are stock items. For other lengths, contact Customer Service for actual lead times.

Part No:	Description:
<b>PT-F6B3-NM1Y</b>	SC Pigtail 62.5/125µm. 1m.
<b>PT-F6B10-NM1Y</b>	LC Pigtail 62.5/125µm. 1m.
<b>PT-F9B3-NM1Y</b>	SC Pigtail 9/125µm 1m. OS1.
<b>PT-F9B10-NM1Y</b>	LC Pigtail 9/125µm 1m. OS1.
<b>PT-FXB3-NM1Y</b>	SC Pigtail 50/125µm 1m. OM3
<b>PT-FXB10-NM1Y</b>	LC Pigtail 50/125µm 1m. OM3

Replace **1** with required length, eg **2** = 2 metres.



## ► SC OPTICAM™ PRE-POLISHED CONNECTORS



- TIA/EIA-604 FOCIS-3 compliant connectors.
- Exceed TIA/EIA-568-B.3 requirements.
- Connector backbone and boot colours follow TIA/EIA-568-C.3 suggested colour identification scheme.
- Insertion loss: 0.3dB average (multimode and singlemode).
- Return loss: >26dB (10Gig™ multimode), >20dB (multimode), >50dB (singlemode).
- Quick installation; provide field termination in less than half the time of field polish connectors.
- Patented re-termination capability provides yield rates approaching 100%.
- Factory pre-polished fibre endface eliminates time-consuming field polishing to reduce installation costs, labour, scrap and the number of tools required.
- Cam activated fibre and buffer clamp mechanisms provide superior fibre and buffer retention – less sensitivity to fibre tensile loading.
- Cable retention boot assemblies consistently provide higher than industry standard cable retention.

- OptiCam™ Termination Tool simplifies tooling and termination, and virtually eliminates operator error by providing visual indication of proper termination after the cam step has been completed.
- Non-optical disconnect maintains data transmission under tensile loads for jacketed cable.
- Fibre cable size: accept 900µm tight-buffered fibre with included boot(s); accept 1.6mm – 2.0mm and 3.0mm jacketed cable with available OptiCam™ Cable Retention Boot Assemblies (ten per package) – ten per package.
- For 250µm coated fibre termination, use 250 micron fibre build-up tube kit or fan-out kits.
- Ferrule type: 2.5mm zirconia ceramic (highest durability for repeated matings) or composite to meet a variety of application requirements.
- Use OptiCam™ Termination Kit (FCAMKIT). **Please call for more information.**

Part No:	Description:
<b>PT-FSCMPC5BL</b>	OptiCam™ SC 50-125 OM2 pre-polished connector
<b>PT-FSCSCBU</b>	OptiCam™ SC 9-125 OS1 pre-polished connector
<b>PT-FSCMCXAQ</b>	OptiCam™ SC 50-125 OM3 pre-polished connector
<b>PT-FSCMC6BL</b>	OptiCam™ SC 62.5-125 OM1 pre-polished connector
<b>PT-FSCDMC6BL</b>	OptiCam™ SC 62.5µm mm DUPL connector black boots
<b>PT-FSCMC5BL</b>	OptiCam™ SC 50µm mm SIMPL connector black boot

## ► LC OPTICAM™ PRE-POLISHED CONNECTORS



- TIA/EIA-604 FOCIS-10 compatible connectors.
- Exceed TIA/EIA-568-B.3 requirements.
- Connector backbone and boot colours follow TIA/EIA-568-C.3 suggested colour identification scheme.
- Insertion loss: 0.3dB average (multimode and singlemode).
- Return loss: >26dB (10Gig™ multimode), >20dB (multimode), >50dB (singlemode).
- Spring-loaded “Senior” rear pivot latch LC connector.
- Quick installation; provide field termination in less than half the time of field polish connectors.
- Patented re-termination capability provides yield rates approaching 100%.
- Factory pre-polished fibre endface eliminates time-consuming field polishing to reduce installation costs, labour, scrap and the number of tools required.

- Cam activated fibre and buffer clamp mechanisms provide superior fibre and buffer retention – less sensitivity to fibre tensile loading.
- OptiCam™ Termination Tool simplifies tooling and termination, and virtually eliminates operator error by providing visual indication of proper termination after the cam step has been completed.
- Cable retention boot assemblies consistently provide higher than industry standard cable retention.
- Non-optical disconnect maintains data transmission under tensile loads for jacketed cable.
- Fibre cable size: accept 900µm tight-buffered fibre with included boot(s); accept 1.6mm – 2.0mm and 3.0mm jacketed cable with available OptiCam™ Cable Retention Boot Assemblies (ten per package).
- For 250µm coated fibre termination, use 250 micron fibre build-up tube kit or fan-out kits.
- Ferrule type: 1.25mm zirconia ceramic (highest durability for repeated matings).
- Use OptiCam™ Termination Kit (FCAMKIT). **Please call for more information.**

Part No:	Description:
<b>PT-FLCSCBUY</b>	OptiCam™ LC 9-125 OS1 pre-polished connector
<b>PT-FLCSMCXAQY</b>	OptiCam™ LC 50-125 OM3 pre-polished connector
<b>PT-FLCSMC6BLY</b>	OptiCam™ LC 62.5-125 OM1 pre-polished connector





## ► PATCH PANELS



Pre-loaded fibre drawers provide a pre-configured, ready-to-install system for managing fibre optic terminations, connections and patching in a 1U rack mount enclosure. The pre-loaded enclosure accommodates both field termination and field splicing, it supports trunk cable entry via PG style glands, blown fibre glands and metric knockouts with rubber grommets. The pre-loaded enclosure is a two-piece design with a slide-out drawer for full access to all fibre terminations, easy moves, adds and changes and simple installation. The enclosure has silk-screened white areas adjacent to each adapter for individual fibre channel labelling and a similar silk-screen area for overall enclosure labelling. The enclosure has integral mounting brackets suitable for installation in any 19" wide EIA-310/IEC 60297 compatible rack or cabinet.

Part No:	Description:
<b>PT-FD1W12BUDSCZ</b>	Edrawer loaded with 12 singlemode SC adapters
<b>PT-FD1W6BUDSCZ</b>	Edrawer loaded with 6 singlemode SC adapters
<b>PT-FD1W12BUDLCZ</b>	Edrawer with 12 duplex LC adaptor singlemode
<b>PT-FD1W12AQDLC</b>	Edrawer with 12 duplex LC adaptors OM3
<b>PT-FD1W12AQDSC</b>	Edrawer with 12 duplex SC adaptors OM3
<b>PT-FD1W24BUDLCZ</b>	Edrawer with 24 duplex LC adaptor singlemode
<b>PT-FD1W24AQDLC</b>	Edrawer with 24 duplex LC adaptors OM3
<b>PT-FD1W6AQDSC</b>	Edrawer with 6 duplex SC adaptors OM3

## QUICKNET™ HYDRA CABLE ASSEMBLIES



- Connectivity meets or exceeds TIA/EIA-568-B.3 and ISO/IEC 11801 performance requirements.
- LC and SC connector housing and boot colours follow TIA/EIA-568-C.3 suggested colour identification scheme.
- Jacketed cable is compliant with NFPA 262 (OFNP) flame rating.
- MTP® (12-fibre) connectors are FOCIS-5 compliant.
- Panduit™ proprietary MTP® polishing provides low insertion loss and high return loss, minimising variability for improved channel link loss performance.
- Insertion loss per mated pair: 0.50dB typical, 0.75dB max.
- Traditional connectors (Panduit™ LC, SC, and ST) provide design flexibility throughout the datacentre.
- Insertion loss per mated pair: 0.10dB typical, 0.30dB max. (multimode); 0.25dB typical, 0.50dB max. (singlemode).
- Factory terminated and 100% tested for insertion loss (test data supplied with each assembly); singlemode and 10Gig™ Multimode Hydra Cable Assemblies also tested for return loss.
- TIA/EIA-568-B.1-7 standards based polarity supports 10 Gb/s, multimode, and singlemode fibre types, and allows infrastructure backwards compatibility for component interchangeability and a lower cost of ownership.
- 10Gig™ laser optimised fibre is tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 metres at 850nm.

# QUICKNET™ MTP<sup>®</sup> INTERCONNECT ROUND CABLE ASSEMBLIES



## ► SINGLEMODE 9Ω (OS1/OS2)

- Pass all TIA/EIA-568-B.3 performance requirements.
- FOCIS-5 compliant.
- 100% factory inspected end face geometry is 100% inspected in compliance with Telcordia GR-326-CORE, Issue 3).
- Insertion loss per mated pair: 0.50dB typical; 0.75dB max.
- 8-degree APC polish (55dB minimum Return Loss)

## ► MULTIMODE 10GIG™ 50/125Ω (OM3 AND OM4)

- Pass all TIA/EIA-568-B.3 performance requirements.
- FOCIS-5 compliant.
- Insertion loss per mated pair: 0.50dB typical; 0.75dB max.
- Backward compatible with all 50/125μm (OM2) MPO or MTP<sup>®</sup> system requirements.
- Factory terminated and 100% tested for insertion loss.
- Tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 metres for OM3 and up to 550 metres for OM4 at 850nm with 50/125μm (OM3 and OM4) laser optimised fibre.
- Insertion loss and return loss data recorded for every 10Gig™ Multimode Interconnect Round Cable Assembly.
- Lifetime traceability of test data to a Q.C. number on each cable assembly.



# QUICKNET™ MTP<sup>®</sup> INTERCONNECT CABLE ASSEMBLIES



## ► SINGLEMODE 9/125Ω (OS1/OS2)

- Pass all TIA/EIA-568-B.3 performance requirements.
- FOCIS-5 compliant.
- 100% factory inspected end face geometry (SC, ST, and FJ<sup>®</sup> end faces are 100% inspected in compliance with Telcordia GR-326-CORE, Issue 3).
- Insertion loss per mated pair: 0.50dB typical; 0.75dB max.
- Factory terminated and 100% tested for insertion loss and return loss.

## ► MULTIMODE 62.5/125Ω (OM1)

- Pass all TIA/EIA-568-B.3 performance requirements.
- FOCIS-5 compliant.
- Insertion loss per mated pair: 0.50dB typical; 0.75dB max.
- Factory terminated and 100% tested for insertion loss.
- Insertion loss data recorded for every multimode cable assembly.
- Lifetime traceability of test data to a Q.C. number on each cable assembly.

## ► MULTIMODE 10GIG™ 50/125Ω (OM2, OM3 AND OM4)

- Pass all TIA/EIA-568-B.3 performance requirements.
- FOCIS-5 compliant.
- Insertion loss per mated pair: 0.50dB typical; 0.75dB max.
- Tested per IEEE 802.3ae 10 GbE to support network transmission speeds up to 10 Gb/s for link lengths up to 300 metres for OM3 and up to 550 metres for OM4 at 850nm with 50/125μm (OM3 and OM4) laser optimised fibre.
- Backward compatible with all 50/125μm (OM2) MPO or MTP<sup>®</sup> system requirements.
- Factory terminated and 100% tested for insertion loss.
- Insertion loss and return loss data recorded for every 10Gig™ Multimode Interconnect Cable Assembly.
- Lifetime traceability of test data to a Q.C. number on each cable assembly.



# OPTICOM® RACK MOUNT FIBRE ENCLOSURES



- Mount to standard 19" or 23" EIA rack or cabinet.
- Hold QuickNet™ or Opticom® Fiber Adapter Panels (FAPs), and Opticom® Fiber Optic Splice Modules.
- Front and rear access on all models via durable molded-hinge doors.
- Integral bend radius control and cable management for fibre patchcords.
- Multiple trunk cable entry locations.
- Include fibre optic cable routing kit (grommets, cable ties, saddle clips, strain relief bracket, and ID/caution labels) for various cable management solutions.

Part No:	Description:
<b>PT-FRME1U</b>	Holds up to three FAP or FMP adapter panels or FOSM splice modules. Bidirectional sliding drawers provides front and rear access to fibres. Dimensions: 1.74"H x 17.00"W x 14.20"D (44.0mm x 432.0mm x 361.0mm)
<b>PT-FRME2U</b>	Holds up to six FAP or FMP adapter panels or FOSM splice modules. Bidirectional sliding drawers provides front and rear access to fibres. Dimensions: 3.48" H x 17.00" W x 14.20" D (88.0mm x 432.0mm x 361.0mm)
<b>PT-FRME3</b>	Holds up to nine FAP or FMP adapter panels. Fixed bulkhead design. Dimensions: 5.00" H x 17.16" W x 11.80" D (127.0mm x 433.3mm x 292.1mm)
<b>PT-FRME4</b>	Holds up to twelve FAP or FMP adapter panels. Fixed bulkhead design. Dimensions: 6.62" H x 17.16" W x 11.80" D (168.1mm x 433.3mm x 292.1mm)

# OPTICOM® RACK MOUNT FIBRE TRAYS



- Mount to standard EIA 19" rack rails.
- Standard front or angled front options.
- Use with Opticom® Fiber Adapter Patch Panels to protect fibres and terminations.
- Can be used as a back box for select Mini-Com™ Patch Panels.
- Removable top cover provides access to connections, fibres, and slack storage in rear of tray.
- Multiple trunk cable entry locations provided on rear and sides of enclosure.
- Include fibre optic cable routing kit (grommets, cable ties, spools, strain relief bracket and ID/caution labels) for various cable management solutions.

Part No:	Description:
<b>PT-FMT1A</b>	Mount with CFAPPBL1A angled fibre adapter patch panel to hold up to four FAP or FMP adapter panels. Dimensions: 1.75" H x 17.16" W x 11.16" D (44.4mm x 433.3mm x 283.5mm)
<b>PT-FMT2A</b>	Mount with CFAPPBL2A angled fibre adapter patch panel to hold up to eight FAP or FMP adapter panels. Dimensions: 3.48" H x 17.16" W x 11.16" D (88.3mm x 433.3mm x 283.5mm)
<b>PT-FMT1</b>	Mount with CFAPPBL1 fibre adapter patch panel to hold up to four QuickNet™ Cassettes, FAP, and FMP adapter panels. Dimensions: 1.75" H x 17.16" W x 11.16" D (44.4mm x 433.3mm x 283.5mm)
<b>PT-FMT2</b>	Mount with CFAPPBL2 fibre adapter patch panel to hold up to eight QuickNet™ Cassettes, FAP, or FMP adapter panels. Dimensions: 3.48" H x 17.16" W x 11.16" D (88.3mm x 433.3mm x 283.5mm)

^One rack space = 1.75" (44.45mm). Optional locks available for rack mount enclosures. All product colour is black.

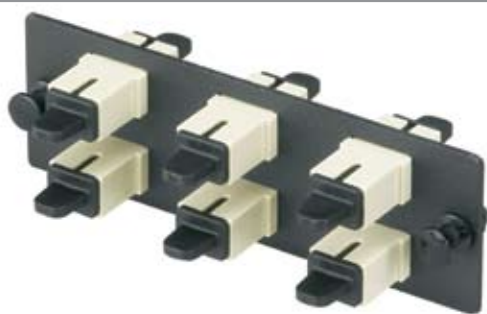
# OPTICOM® FIBRE ADAPTER PATCH PANELS

- Mount to standard EIA 19" rack rails.
- Standard version holds both QuickNet™ Fibre Optic Cassettes and Opticom® Fibre Adapter Panels.
- Angled version holds Opticom® Fibre Adapter Panels and matches Mini-Com™ Angled Patch Panel profile.
- Use with Opticom® Rack Mount Fibre Trays to protect fibres and terminations.

## ➤ FIBRE ADAPTER PATCH PANELS

Part No:	Description:
<b>PT-CFAPPBL1</b>	Flat fibre patch panel. Holds up to four FAP or FMP adapter panels
<b>PT-CFAPPBL2</b>	Flat fibre patch panel. Holds up to eight FAP or FMP adapter panels
<b>PT-CFAPPBL1A</b>	Angled fibre patch panel. Holds up to four FAP or FMP adapter panels
<b>PT-CFAPPBL2A</b>	Angled fibre patch panel. Holds up to eight FAP or FMP adapter panels

## ➤ OPTICOM FIBRE ADAPTOR PANELS (FAP)



Fibre adapter panels contain TIA/EIA-604 FOCIS compliant or compatible simplex or duplex fibre optic adapters and meet or exceed TIA/EIA-568-B.3 requirements. Adaptors include phosphor bronze or zirconia ceramic split sleeves to fit specific network requirements. LC and SC adapter housing colours follow the TIA/EIA-568-C.3 suggested colour identification scheme. Multimedia modular panels allow customization of installation for applications requiring integration of fibre optic and copper cables. Blank fibre adapter panels reserve fibre adapter panel space for future use. All fibre adapter panels snap quickly into the front of fibre optic patch panels and enclosures for easy network deployment or moves, adds and changes.

Part No:	Description:
<b>PT-FAP6WEIDSC</b>	SC PT-FAP loaded with 6 SC duplex multimode fibre optic adapters.
<b>PT-FAP6WBUDSCZ</b>	SC PT-FAP loaded with 6 SC duplex singlemode fibre optic adapters.
<b>PT-FAP6WST</b>	ST FAP loaded with 6 ST simplex multimode fibre optic adapters.
<b>PT-FAP6WSTZ ST</b>	PT-FAP loaded with 6 ST simplex singlemode fibre optic adapters.
<b>PT-FAP6WEIDLC</b>	LC PT-FAP loaded with 6 LC duplex multimode fibre optic adapters.
<b>PT-FAP6WBUDLCZ</b>	LC PT-FAP loaded with 6 LC duplex singlemode fibre optic adapters.
<b>PT-FAP6WAQDLC</b>	LC PT-FAP loaded with 6 LC duplex multimode fibre optic adapters. Aqua.
<b>PT-FAP6WAQDLCZ</b>	LC PT-FAP loaded with 6 LC duplex multimode fibre optic adapters. Aqua Zirconia.

# PANZONE™ ZONECABLING

## ➤ PANZONE™ METAL UNDER FLOOR BOX



- Suitable for wall mount and underfloor applications.
- UL 2043 approved for use in air-handling spaces for copper applications.
- Accept Mini-Com™ Modules for STP and UTP, fibre optic, and audio/video, which snap in and out for easy moves, adds, and changes.
- Supplied with cable management accessories.
- Optional fibre conversion kit available.

Part No:	Description:
<b>PT-CUFMB24BL</b>	Mini-Com™ 24 port unloaded metal under floor box
<b>PT-CUFB48BL</b>	Mini-Com™ 48 port unloaded metal under floor box



Can't find what you're looking for? Then contact us...



## ➤ PANZONE™ CONSOLIDATION POINT BOXES



- Work with standard office raised floor tiles.
- Include Cool Boot® Raised Floor Air Sealing Grommet for quick moves, adds, and changes.
- Accept all Mini-Com™ Modules.
- Accept field terminated or pre-terminated connectivity solutions.
- Secure lockable cover.
- Compatible with 7/8" square, 1" diameter, 1 1/2" diameter, and 2" diameter raised floor pedestals.

Part No:	Description:
<b>PT-PZRFE4</b>	Panzone™ raised floor enclosure accepts 4RU std patch panel or 2RU of QuickNet™
<b>PT-PZRFE8</b>	Panzone™ raised floor enclosure accepts 8RU std patch panel or 4RU of QuickNet™
<b>PT-PZRFE12</b>	Panzone™ raised floor enclosure accepts 12RU std patch panel or 6RU of QuickNet™
<b>PT-PZRFC</b>	Panzone™ lockable cover for raised floor enclosures



- Designed to accept up to 2 RU of active electronics as deep as 17.5" and up to 6 RU of standard 19" passive connectivity (PZICEA only).
- Designed to accept up to 8 RU standard 19" passive connectivity (PZICE only).
- Thermal management design optimises air flow for improved heat dissipation; ideal for high heat load PoE enabled switch applications.
- Mount in 2' x 2', 2' x 4', and 2' x 6' drop ceilings.
- 50 pound door weight capacity.
- Include door plate, equipment mounting bracket, integrated horizontal cable slack manager.
- AC power ready – receptacle not included (PZICEA only).
- Includes low decibel 60 CFM fan (PZICEA only).

Part No:	Description:
<b>PT-PZICEA</b>	Panzone™ in ceiling fully assembled enclosure accepts 2 RU of active components
<b>PT-PZICFK-E</b>	Panzone™ in ceiling fan kit
<b>PT-PZICGK</b>	Panzone™ in ceiling grounding and bonding kit

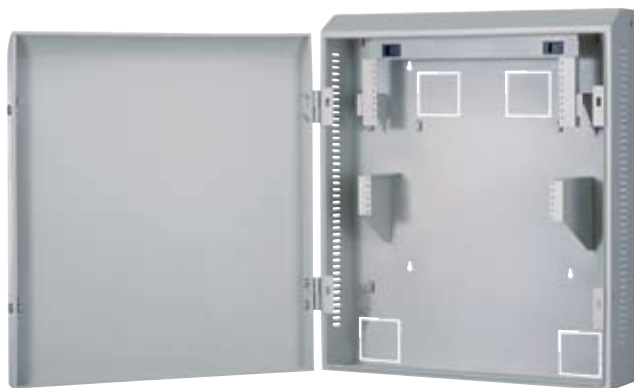
## ➤ PANZONE™ OVERHEAD DISTRIBUTION RACKS



- Ideal solution for adding more rack spaces above racks or cabinets in datacentres or telecommunication rooms.
- Universal mounting bracket can be mounted to most industry ladder racks, wire basket, or suspended by threaded rod from ceiling.
- Multiple mounting configurations.
- 40/60/80 lbs. load rating.
- Optional cable management solutions (PZBR4 and CMVDR2).

Part No:	Description:
<b>PT-PZLRB2</b>	Panzone™ overhead distribution racks 2RU
<b>PT-PZLRB4</b>	Panzone™ overhead distribution racks 4RU
<b>PT-PZLRB6</b>	Panzone™ overhead distribution racks 6RU

## ➤ PANZONE™ WALL MOUNTED SWITCH/PANEL ENCLOSURE



- Hold 12 RU of active and passive network equipment plus two additional RU for power strips and small electronic devices (modems, routers, etc.).
- Structurally engineered to swing freely even under maximum load capacity.
- Thermal management design (vents, perforated doors, and optional fan) optimises airflow for improved heat dissipation; ideal for high heat load PoE enabled switch applications.
- Working load rating of 250 lbs.
- Adjustable rails mount at 1" increments to accommodate various depths of network equipment including PoE switches.
- Individual rack spaces are identified for ease of equipment mounting.

Part No:	Description:
<b>PT-PZAEWM3Y</b>	Panzone™ wall mounted switch/panel enclosure
<b>PT-PZAELOCK</b>	Panzone™ lock kit for wall enclosure

## ➤ MUTOA BOXES



Two module space, 1/2 size, sloped shuttered insert accepts two Mini-Com™ Modules. Shutters are spring loaded and rotate out of the way for cable connections. Not suitable for use with any audio/video or fibre connector module that protrudes beyond the face of the insert.

- Accepts Mini-Com™ Modules for STP and UTP, fibre optic, and audio/video, which snap in and out for easy moves, adds, and changes.
- Mounts easily with adhesive tape or optional magnet (CSBM-X).
- Two pass-through holes allow surface mounting with screws (not included).
- Expandable cable opening will adjust to different cable bundle sizes.
- Accepts up to three 1/2 size sloped inserts (shuttered or non-shuttered) for up to six modules (inserts and modules not included).
- Two mounting eyelets (by the cable opening) allow the MuTOA to be suspended.
- Cable tie support slot will hold cable bundle in place during assembly.
- Ideal for pre-assembled cable runs.

Part No:	Description:
<b>PT-CHS2SIW-X</b>	Mini-Com™ shuttered sloped insert for mutoa box (Off White)

For other colours, replace **IW** with suffix AW (Arctic White), EI (Electric Ivory), WH (White), IG (International Grey), BL (Black), NG (Nordic Grey), PW (Polar White).

Part No:	Description:
<b>PT-CM6PIW</b>	Mini-Com™ 6 port mutoa box (Off White).

For other colours, replace **IW** with suffix EI (Electric Ivory), WH (White), IG (International Grey), BL (Black), CL (Clear)



# NET-ACCESS™ CABINETS & ACCESSORIES

## ► NET-ACCESS™ ENCLOSURES



- Inset frame posts create large and accessible vertical pathways for routing cables.
- Designed with the use of CFD (computational fluid dynamics) analysis and thermal lab testing to optimise the thermal performance of network switches requiring side-to-side airflow.

## ► ACCESSORIES



Part No:	Description:
<b>PT-CNBRFK</b>	Net-Access™ 9U Finger Management Kit
<b>PT-CNCSTR</b>	Net-Access™ casters
<b>PT-CNAE1</b>	Net-Access™ 6509 air duct
<b>PT-CNAE2</b>	Net-Access™ 9513 air duct
<b>PT-CNAE3</b>	Net-Access™ 6513 air duct
<b>PT-CNDD</b>	Net-Access™ dual hinged perforated door
<b>PT-CNDS</b>	Net-Access™ split door
<b>PT-CNPS</b>	Net-Access™ side panel

- Modular cable management fingers easily mount to the front and/or back of all four cabinet posts.
- Accommodate equipment mounting depths up to 25.9" (658mm).
- Innovative, fully integrated, electrically bonded cabinet with a single ground connection to guard against EMI and ESD, and provide a safe current path to ground.
- Four adjustable equipment mounting rails – available in cage nut or #12-24 threaded with printed rack space identification.
- Equipment rails have printed rack space numbering that can be oriented numbers up or down.
- Durable black polyester epoxy powder coat finish.
- 2,500 lbs. (1134 kg) load rating.
- Cabinet ships assembled, one per pallet.

- Cabinet frame with top panel. Tapped equipment rails (12-24).
- Dual hinge perforated front door opens to the left or right.
- Split perforated rear doors open in the middle to minimise door swing footprint.
- Solid side panels.
- Two sets of #12-24 threaded equipment mounting rails.
- 45 RU cable management on front and rear of front posts.
- Dimensions: 84.0" H x 31.5" W x 41.1" D (2134mm x 800mm x 1044mm)

Part No:	Description:
<b>PT-CN1</b>	Net-Access™ 45U enclosure + side panels and doors

- Cabinet frame with top panel.
- Dual hinge perforated front door opens to the left or right.
- Split perforated rear doors open in the middle to minimise door swing footprint.
- Two sets of #12-24 threaded equipment mounting rails.
- 45 RU cable management on front and rear of front posts.
- Dimensions: 84.0" H x 31.5" W x 41.1" D (2134mm x 800mm x 1044mm)

Part No:	Description:
<b>PT-CN2</b>	Net-Access™ 45U enclosure + doors

- Cabinet frame with top panel.
- Two sets of #12-24 threaded equipment mounting rails.
- 45 RU cable management on front and rear of front posts.
- Dimensions: 84.0"H x 31.5"W x 40.0"D (2134mm x 800mm x 1016mm)

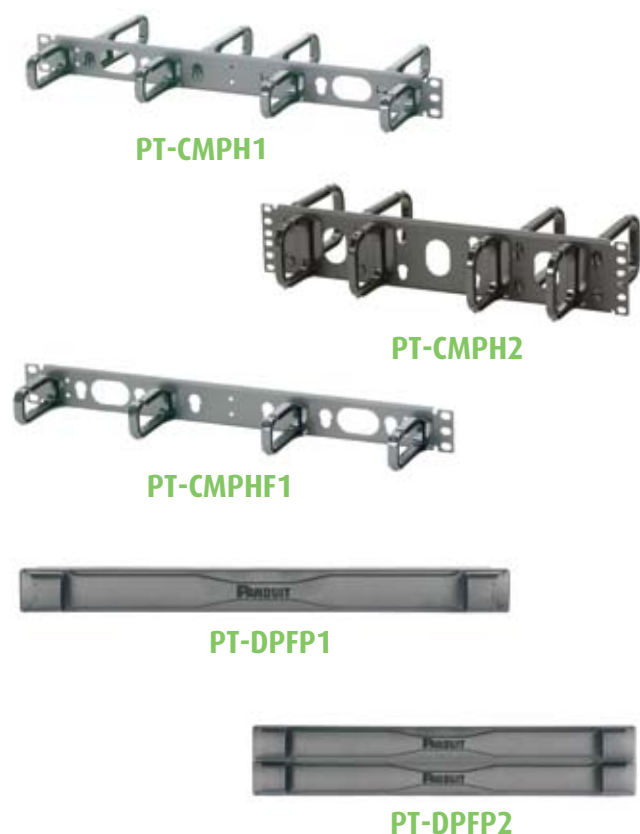
Part No:	Description:
<b>PT-CN3</b>	Net-Access™ 45U enclosure without side panels



Part No:	Description:
<b>PT-RFG6X8Y</b>	CoolBoot™ raised floor air sealing grommet. Overall size of 152mm x 203mm. Allows for 106mm x 157mm capacity
<b>PT-RFG6X8SMY</b>	CoolBoot™ raised floor surface mount air sealing grommet. Overall size of 152mm x 203mm. Allows for 106mm x 157mm capacity
<b>PT-RFG8X8Y</b>	CoolBoot™ raised floor air sealing grommet. Overall size of 203mm x 203mm. Allows for 157mm x 157mm capacity
<b>PT-RFG8X8SMY</b>	CoolBoot™ raised floor surface mount air sealing grommet. Overall size of 203mm x 203mm. Allows for 157mm x 157mm capacity

## CABLE MANAGEMENT

### ► HORIZONTAL CABLE MANAGEMENT



Panduit™ PatchLink™, NetManager™, and Open-Access™ Horizontal Cable Managers manage, protect, and showcase cables between patch panels on 19" EIA racks.

- PatchLink™ and NetManager™ Dual Hinged Covers conceal cable pathway and provide easy access without having to remove the door.
- Pass-through holes allow front to rear cabling.
- For comparison, multiply by 1.25 for a fill rate of 50%.
- Capacities are based on a fill rate of 40% to accommodate proper cable routing techniques.

Part No:	Description:
<b>PT-CMPHF1</b>	1U 4 D-ring cable management
<b>PT-CMPHF2</b>	2U 4 D-ring cable management
<b>PT-NCMHF1</b>	NetManager™ 1U cable management with cover
<b>PT-NCMHF2</b>	NetManager™ 2U cable management with cover
<b>PT-WMPFSE</b>	PatchLink™ 1U cable management with cover
<b>PT-WMPSE</b>	PatchLink™ 1U cable management with cover. Front and Rear
<b>PT-WMP1E</b>	PatchLink™ 2U cable management with cover. Front and Rear
<b>PT-DPFP1</b>	1U Blank Panel
<b>PT-DPFP2</b>	2U Blank Panel





## ► STANDARD RACK + PATCHRUNNER™



**PT-CMR19X84**



**PT-PRV6**

Part No:	Description:
<b>PT-CMR19X84</b>	19 45U Standard Rack
<b>PT-PRV6</b>	PatchRunner™ 45U vertical management 152.4mm (6")
<b>PT-PRD6</b>	PatchRunner™ 152.4mm/6" Door
<b>PT-PRV8</b>	PatchRunner™ 45U vertical management 203mm (8")
<b>PT-PRD8</b>	PatchRunner™ 203mm/8" Door
<b>PT-PRV12</b>	PatchRunner™ 45U vertical management 305mm (12")
<b>PT-PRD12</b>	PatchRunner™ 305mm/12" Door
<b>PT-PRV15</b>	PatchRunner™ 45U vertical management 381mm (15")
<b>PT-PRD15</b>	PatchRunner™ 381mm/15" Door

## ► 4 POST RACK



Part No:	Description:
<b>PT-CMR4P84</b>	Pan-Net™ 45U 4 Post Rack with threaded rails
<b>PT-CMR4P84CN</b>	Pan-Net™ 45U 4 Post Rack with cage nuts.
<b>PT-CMR4P96</b>	Pan-Net™ 52U 4 Post Rack with threaded rails.
<b>PT-CMR4P96CN</b>	Pan-Net™ 52U 4 Post Rack with cage nuts

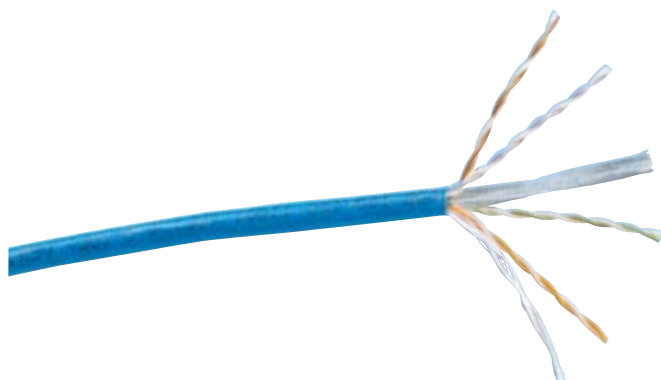
## ► NETFRAME™ RACK



Part No:	Description:
<b>PT-NFR84</b>	19" 45U NetFrame™ Rack. PC 1 -
<b>PT-NFDR4X6K</b>	D-ring management (8 pack). PC 1 -
<b>PT-NFD484</b>	Door for NetFrame™ (2 required per rack). PC 1 -



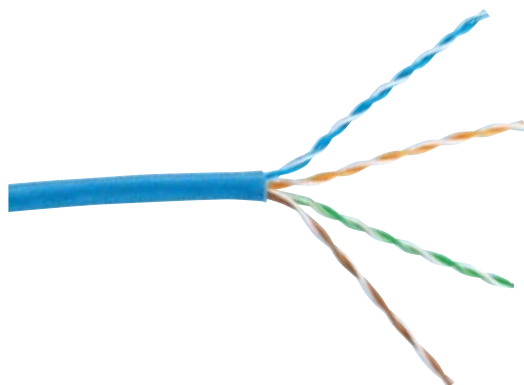
## ► NETKEY™ CATEGORY 6 UTP COPPER CABLE



- Meets ISO/IEC Category 6/Class E and Category 5e/Class D performance requirements.
- Descending length cable markings enable easy identification of remaining cable.
- Third party verified.

Part No:	Description:
<b>PT-NUL6C04BU-CE</b>	Category 6, low smoke zero halogen (LSZH), 4-pair, UTP, blue copper cable
<b>PT-NUC6C04BU-CE</b>	Category 6, PVC (CM), 4-pair, UTP, blue copper cable

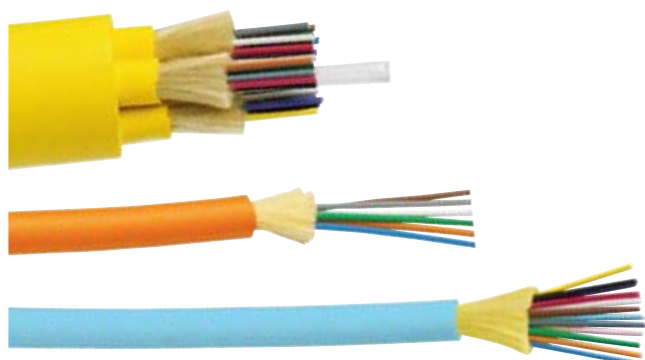
## ► NETKEY™ CATEGORY 5E UTP COPPER CABLE



- Meets ISO/IEC Category 6/Class E and Category 5e/Class D performance requirements.
- Descending length cable markings enable easy identification of remaining cable.
- Third party verified.
- 305m (1,000 ft.) in an easy-pay-out box.

Part No:	Description:
<b>PT-NUL5C04BU-CE</b>	Category 5e, low smoke zero halogen (LSZH), 4-pair, UTP, blue copper cable.
<b>PT-NUC5C04BU-CE</b>	Category 5e, PVC (CM), 4-pair, UTP, blue copper cable

## ► NETKEY™ FIBRE OPTIC DISTRIBUTION CABLE



- Used in intra-building backbone, building backbone, and horizontal installations for low smoke zero halogen (LSZH), and general-purpose environments.
- Used in intra-building backbone, building backbone, and horizontal installations for riser (OFNR), and general-purpose environments.
- Singlemode (OS1) and multimode (OM1, OM2, OM2+ 10Gig™ 150, and OM3 10Gig™ 300 850nm laser optimised) fibre available.
- Sheath markings provide positive identification, quality, traceability and length verification.
- Cable design and flexible buffer tubes allow for quick breakout and ease of routing.
- 900µm standards-based colour-coded buffer coating protects fibres during handling and allows for easy identification and stripping.
- 10Gig™ Fibre Optic Indoor/Outdoor Cable includes 10Gig™ 300 OM3.

- Opti-Core™ 10Gig™ Cable is designed to support network transmission speeds up to 10 Gb/s for link lengths up to 300 metres with an 850nm source per IEEE 802.3ae 10 GbE Standard; backward compatible for use with all 50/125µm system requirements.
- Cable for 300 metre reach requirements and also 10Gig™ 150 OM2+.
- Cable for 150 metre reach requirements.

Part No:	Description:
<b>PT-FPDL908</b>	8-Fibre 9/125µm (OS1) singlemode low smoke zero halogen rated distribution cable
<b>PT-FPDL912</b>	12-Fibre 9/125µm (OS1) singlemode low smoke zero halogen rated distribution cable
<b>PT-FPDL608</b>	8-Fibre 62.5/125µm (OM1) multimode low smoke zero halogen rated distribution cable
<b>PT-FPDL612</b>	12-Fibre 62.5/125µm (OM1) multimode low smoke zero halogen rated distribution cable
<b>PT-FPDL508</b>	8-Fibre 50/125µm (OM2) multimode low smoke zero halogen rated distribution cable
<b>PT-FPDL512</b>	12-Fibre 50/125µm (OM2) multimode low smoke zero halogen rated distribution cable
<b>PT-FQDLX08</b>	8-Fibre 10Gig 50/125µm (OM3) multimode low smoke zero halogen rated distribution cable
<b>PT-FQDLX12</b>	12-Fibre 10Gig 50/125µm (OM3) multimode low smoke zero halogen rated distribution cable



# NETKEY™ MODULES & PATCHCORDS

## ► NETKEY™ CAT5e, CAT6 & CAT3 COPPER JACK MODULES



**PT-NK688MIW**  
**PT-NKP5E88MIW**



**PT-NK688MIW-Q**  
**PT-NKP5E88MIW-Q**



**PT-NK5E88MIWY**



**PT-NK5E88MIW-Q**



**PT-NK388MIWY**



**PT-NK366UMIWY**



**PT-NK366MIWY**

- Meet all industry performance standards for Category 6, 5e and 3.
- Punchdown jack modules are 100% performance tested and individually serialised for future traceability.
- Snap in and out of keystone openings for easy moves, adds and changes.
- Universal label includes T568A and T568B wiring schemes.

Part No:	Description:
<b>PT-NK688MIW</b>	Category 6, 8-position, 8-wire, keystone punchdown jack module
<b>PT-NK688MIW-Q</b>	Convenience pack of 25, Category 6, 8-position, 8-wire, keystone punchdown jack modules
<b>PT-NKP5E88MIW</b>	Category 5e, 8-position, 8-wire, keystone punchdown jack module
<b>PT-NKP5E88MIW-Q</b>	Convenience pack of 25, Category 5e, 8-position, 8-wire, keystone punchdown jack modules
<b>PT-NK5E88MIW</b>	Category 5e, 8-position, 8-wire, keystone leadframe jack module
<b>PT-NK5E88MIW-Q</b>	Convenience pack of 25, Category 5e, 8-position, 8-wire, keystone leadframe jack modules
<b>PT-NK388MIWY</b>	Category 3, 8-position, 8-wire, keystone leadframe jack module
<b>PT-NK388MIWY</b>	Category 3, 6-position, 6-wire, keystone leadframe jack module. Termination cap colour-coded to USOC wiring scheme.
<b>PT-NK366MIWY</b>	Category 3, 6-position, 6-wire, keystone leadframe jack module

## ► NETKEY™ COPPER UTP PATCHCORDS



**PT-NK6PC^\*Y**



**PT-NK5EPC^\*Y**

- Meet all industry performance standards for Category 6 and 5e.
- 100% performance tested.
- Available in a variety of colours and lengths for design flexibility.

Part No:	Description:
<b>PT-NK6PC^*Y</b>	Category 6, UTP patchcord with modular plugs on each end
<b>PT-NK5EPC^*Y</b>	Category 5e, UTP patchcord with modular plugs on each end

- ↗ Available in 1, 2, 3, 4, 5 metre lengths.
- ✿ For standard colours other than Off White, add suffix BU (Blue), RD (Red), YL (Yellow) or GR (Green) before Y in the part number. For example, the part number of a blue, Category 6, 5-metre patchcord is PT-NK6PC5MBUY.



## ► NETKEY™ LC CONNECTORS – POT AND POLISH TERMINATION



**PT-NKFLCSMWH**



**PT-NKFLCCLIP-L**

Part No:	Description:
<b>PT-NKFLCSMWH</b>	LC 62.5/125µm multimode simplex connector. EI (Electric Ivory) body, WH (White) boot
<b>PT-NKFLCSMBL</b>	LC 50/125µm multimode simplex connector. EI (Electric Ivory) body, BL (Black) boot
<b>PT-NKFLCSMBL</b>	LC 50/125µm OM3/OM4 multimode simplex connector. EI (Electric Ivory) body, AQ (Aqua) boot
<b>PT-NKFLCSMBL</b>	LC singlemode simplex connector. BU (Blue) body, WH (White) boot
<b>PT-NKFLCSMBL</b>	LC duplex clip, (Rd) Red

## ► NETKEY™ SC CONNECTORS – POT AND POLISH TERMINATION



**PT-NKFSCMBL**



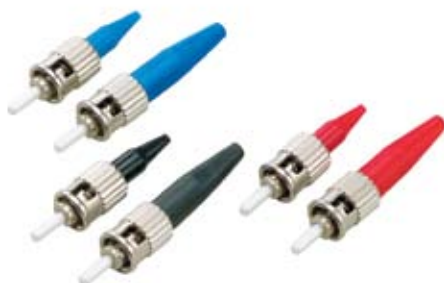
**PT-NKFSCMPC5BL**



**PT-NKFSCCLIP-L**

Part No:	Description:
<b>PT-NKFSCMAQ</b>	SC 50/125µm OM3/OM4 multimode simplex connector. EI (Electric Ivory) body, AQ (Aqua) boot
<b>PT-NKFSCSWH</b>	SC singlemode simplex connector. BU (Blue) body, WH (White) boot
<b>PT-NKFSCCLIP-L</b>	SC Duplex Clip, (Rd) Red
<b>PT-NKFSCMWH</b>	SC 62.5/125µm multimode simplex connector. EI (Electric Ivory) body, WH (White) boot
<b>PT-NKFSCMBL</b>	SC 50/125µm multimode simplex connector. EI (Electric Ivory) body, BL (Black) boot

## ► NETKEY™ ST & SC CONNECTORS – PRE-POLISHED OPTICAM™ TERMINATION



**PT-NKFSTMABL**



**PT-NKFSTMP6EI**

Part No:	Description:
<b>PT-NKFSCMPC6EI</b>	SC OptiCam™ Composite Ferrule 62.5/125µm multimode simplex connector, Electric Ivory
<b>PT-NKFSCMPC5BL</b>	SC OptiCam™ Composite Ferrule 50/125µm multimode simplex connector, Black
<b>PT-NKFSTMABL</b>	ST multimode connector with Black boot (62.5/125µm or 50/125µm)
<b>PT-NKFSTSABU</b>	ST singlemode connector with Blue boot
<b>PT-NKFSTMP6EI</b>	ST OptiCam™ Composite Ferrule 62.5/125µm multimode simplex connector, Electric Ivory
<b>PT-NKFSTMP5BL</b>	ST OptiCam™ Composite Ferrule 50/125µm multimode simplex connector, Black





## ► NETKEY™ FIBRE OPTIC PATCHCORDS AND PIGTAILS



**SC TO SC PATCHCORD**



**LC TO LC PATCHCORD**

- Compliant with TIA/EIA 568-C.3-1 and ISO/IEC 11801, IEC-61754-7 (international) and TIA-604-5 (FOCIS-5).
- Patchcords and pigtails include OM3 fibre or OM1, OM2, or OS1 fibre in 900µm tight-buffered fibre, 1.6mm or 3.0mm duplex zipcord jacketed cable or 1.8mm duplex zipcord jacketed cable.
- 100% performance tested assures that patchcords and pigtails are standard compliant.
- Q.C. identification label quality control reference provides lifetime traceability of test data.



**SC TO LC PATCHCORD**



**ST TO ST PATCHCORD**



**MTRJ TO MTRJ PATCHCORD**



**LC PIGTAIL**



**SC PIGTAIL**



**ST PIGTAIL**

Part No:	Description:
<b>PT-NKXXFL02F-FM01</b>	MTRJ to MTRJ patchcord, OM1, LSZH, duplex (1.8 mm jacket)
<b>XX</b> = F6 = OM1; F5 = OM2; FX = OM3	
<b>PT-NKXXFL02L-FM01</b>	LC to MTRJ patchcord, OM1, LSZH, duplex (1.8 mm jacket)
<b>XX</b> = F6 = OM1; F5 = OM2; FX = OM3	
<b>PT-NKXXFL022-FM01</b>	ST to MTRJ patchcord, OM1, LSZH, duplex (1.8 mm jacket)
<b>XX</b> = F6 = OM1; F5 = OM2; FX = OM3	
<b>PT-NKXXFL02S-FM01</b>	SC to MTRJ patchcord, OM1, LSZH, duplex (1.8 mm jacket)
<b>XX</b> = F6 = OM1; F5 = OM2; FX = OM3	
<b>PT-NKXXBN011-NM01</b>	LC to Pigtail, OM1, simplex, 900um buffered fibre
<b>XX</b> = F6 = OM1; F5 = OM2; FX = OM3; F9 = singlemode	
<b>PT-NKXXBN013-NM01</b>	SC to Pigtail, OM1, simplex, 900um buffered fibre
<b>XX</b> = F6 = OM1; F5 = OM2; FX = OM3; F9 = singlemode	
<b>PT-NKXXBN012-NM01</b>	ST to Pigtail, OM1, simplex, 900um buffered fibre
<b>XX</b> = F6 = OM1; F5 = OM2; FX = OM3; F9 = singlemode	

Part No:	Description:
<b>PT-NKXXGL022-2M01</b>	ST to ST patchcord, OM1, LSZH, duplex (3 mm jacket)
<b>XX</b> = F6 = OM1; F5 = OM2; FX = OM3; F9 = singlemode	
<b>PT-NKXXGL02S-SM01</b>	SC to SC patchcord, OM1, LSZH, duplex (3 mm jacket)
<b>XX</b> = F6 = OM1; F5 = OM2; FX = OM3; F9 = singlemode	
<b>PT-NKXXEL02L-LM01</b>	LC to LC patchcord, OM1, LSZH, duplex (1.6 mm jacket)
<b>XX</b> = F6 = OM1; F5 = OM2; FX = OM3; F9 = singlemode	
<b>PT-NKXXEL02S-LM01</b>	SC to LC patchcord, OM1, LSZH, duplex (1.6 mm jacket)
<b>XX</b> = F6 = OM1; F5 = OM2; FX = OM3; F9 = singlemode	
<b>PT-NKXXGL022-SM01</b>	ST to SC patchcord, OM1, LSZH, duplex (3 mm jacket)
<b>XX</b> = F6 = OM1; F5 = OM2; FX = OM3; F9 = singlemode	

\*For standard metre lengths other than 1 metre (2, 3, 5 or 10), change the length designation in the part number to the desired length. For example, the part number for a 2 metre, ST to ST, OM1, LSZH, duplex patchcord is NKF6GL022-2M02.



## ► NETKEY™ COPPER PATCH PANELS – CATEGORY 6



**PT-NK6PPG12WY**



**PT-NK6PPG24Y**



**PT-NK6PPG48Y**

Part No:	Description:
<b>PT-NK6PPG12WY</b>	Category 6, 12-port punchdown patch panel. Mounts to wall with standard 89D bracket (WB89D)
<b>PT-NK6PPG24Y</b>	Category 6, 24-port punchdown patch panel, 1 RU
<b>PT-NK6PPG48Y</b>	Category 6, 48-port punchdown patch panel, 2 RU

## ► NETKEY™ COPPER PATCH PANELS – CATEGORY 5E



**PT-NK5EPPG12WY**



**PT-NK5EPPG24Y**



**PT-NK5EPPG48Y**

Part No:	Description:
<b>PT-NK5EPPG12WY</b>	Category 5e, 12-port punchdown patch panel. Mounts to wall with standard 89D bracket (WB89D)
<b>PT-NK5EPPG24Y</b>	Category 5e, 24-port punchdown patch panel, 1 RU
<b>PT-NK5EPPG48Y</b>	Category 5e, 48-port punchdown patch panel, 2 RU

\*Punchdown patch panels are colour-coded for T568A and T568B wiring schemes.

Punchdown tools found on page 13.

## ► NETKEY™ MODULAR PATCH PANELS



**PT-NKFP12W**



**PT-NKFP24Y**



**PT-NKFP48Y**

Part No:	Description:
<b>PT-NKFP12W</b>	12-port modular patch panel. Mounts to wall with standard 89D bracket (WB89D)
<b>PT-NKFP24Y</b>	24-port modular patch panel, 1 RU
<b>PT-NKFP48Y</b>	48-port modular patch panel, 2 RU
<b>PT-NKFP24KSRBSY</b>	24-port modular patch panel with strain relief bar, 1 RU
<b>PT-NKFP48KSRBSY</b>	48-port modular patch panel with strain relief bar, 2 RU

## ► NETKEY™ ALL METAL PATCH PANELS



**PT-NKMP24Y**



**PT-NKMP48Y**

Part No:	Description:
<b>PT-NKMP24Y</b>	24-port all metal modular patch panel, 1 RU
<b>PT-NKMP48Y</b>	48-port all metal modular patch panel, 2 RU



Can't find what you're looking for? Then contact us...

## ► NETKEY™ FLUSH MOUNT PATCH PANELS



PT-NKPPA24FMY



PT-NKPPA48FMY



PT-NKPP24FMY



PT-NKPP48FMY

Part No:	Description:
PT-NKPPA24FMY	24-port flush mount angled modular patch panel, 1 RU
PT-NKPPA48FMY	48-port flush mount angled modular patch panel, 2 RU
PT-NKPP24FMY	24-port flush mount modular patch panel, 1 RU
PT-NKPP48FMY	48-port flush mount modular patch panel, 2 RU

## ► NETKEY™ MOULDED MODULAR/PUNCHDOWN PATCH PANELS



Part No:	Description:
PT-NKPP24P	24-port moulded modular patch panel
PT-NKPP48P	48-port moulded modular patch panel
PT-NK5EPP24P	Category 5e, 24-port moulded punch down patch panel
PT-NK5EPP48P	Category 5e, 48-port moulded punch down patch panel
PT-NK6PP24P	Category 6, 24-port moulded punch down patch panel
PT-NK6PP48P	Category 6, 48-port moulded punch down patch panel

## ► FILLER PANELS



PT-TLBP1R-V



PT-TLBP2R-V



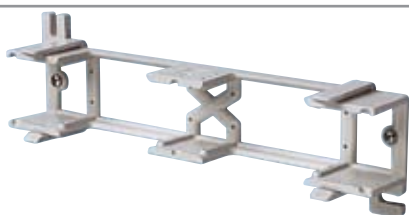
PT-CPAF1BLY



PT-CPAF2BLY

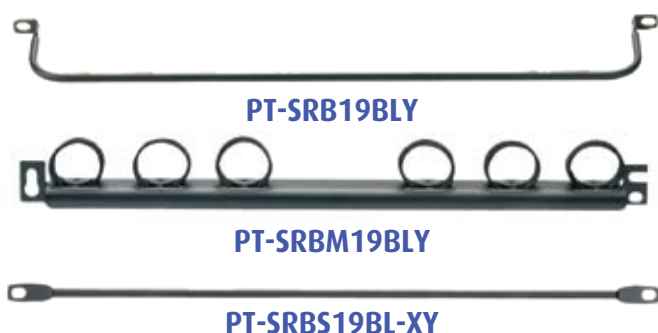
Part No:	Description:
PT-TLBP1S-V	1 RU tool-less filler panel, 9.52mm (3/8 in.) square holes
PT-TLBP1R-V	1 RU tool-less filler panel, M5 (#10) or M6 (#12) round tapped holes
PT-TLBP2S-V	2 RU tool-less filler panel, 9.52mm (3/8 in.) square holes
PT-TLBP2R-V	2 RU tool-less filler panel, M5 (#10) or M6 (#12) round tapped holes
PT-CPAF1BLY	1 RU angled filler panel
PT-CPAF2BLY	2 RU angled filler panel

## ► WALL MOUNT BRACKET



Part No:	Description:
<b>PT-WB89D</b>	Wall mount bracket. Ideal for use with 12-port punchdown or modular patch panels

## ► STRAIN RELIEF BARS



Part No:	Description:
<b>PT-SRB19BLY</b>	Strain relief bar extends 50mm from standard 19" rack for additional cable support
<b>PT-SRBM19BLY</b>	Strain relief bar and Tak-Ty "Hook and Loop Cable Ties for additional cable support
<b>PT-SRBS19BL-XY</b>	Straight strain relief bar

# FIBRE ENCLOSURES

## ► NETKEY™ PRE-LOADED FIBRE DRAW



- Slide-out drawer slides forward a full 300mm for service access to all fibre terminations, connections, and/or splices.
- Supports both field termination via pot-and-polish using Panduit NetKey™ connectors, or fusion splicing with appropriate slack storage and cable management provisions.
- Trunk and interconnect cable entry via PG11 glands, 5mm blown fibre glands, 20mm knock-outs, or 30mm rubber grommets.
- Simple two-piece, all-metal body construction for easy and economical installation with no loose components to misplace; improved protection over plastic fibre drawers.
- Dedicated silk-screened white labeling areas on drawer front for individual fibre adapters and overall enclosure labeling for proper channel identification and patchcord traceability.

Part No:	Description:
<b>PT-NKFD1W12EIDSC*</b>	Pre-loaded fibre drawer with 12 SC duplex adapters for 62.5/125im (OM1) multimode fibre
<b>PT-NKFD1W24EIDLC**</b>	Pre-loaded fibre drawer with 24 LC duplex adapters for 62.5/125im (OM1) multimode fibre
<b>PT-NKFD1W12BLDSC*</b>	Pre-loaded fibre drawer with 12 SC duplex adapters for 50/125im (OM2) multimode fibre
<b>PT-NKFD1W24BLDLC**</b>	Pre-loaded fibre drawer with 24 LC duplex adapters for 50/125im (OM2) multimode fibre
<b>PT-NKFD1W12AQDSC*</b>	Pre-loaded fibre drawer with 12 SC duplex adapters for 50/125im (OM3/OM4) multimode fibre.
<b>PT-NKFD1W24AQDLC**</b>	Pre-loaded fibre drawer with 24 LC duplex adapters for 50/125im (OM3/OM4) multimode fibre.
<b>PT-NKFD1W12BUDSCZ*</b>	Pre-loaded fibre drawer with 12 SC duplex adapters for 9/125im (OS1/OS2) multimode fibre
<b>PT-NKFD1W24BUDLCZ**</b>	Pre-loaded fibre drawer with 24 LC duplex adapters for 9/125im (OS1/OS2) multimode fibre

\*For 6 adapters per enclosure, replace 12 in part number with 6.

\*\*For 12 adapters per enclosure, replace 24 in part number with 12.



Can't find what you're looking for? Then contact us...



## ► NETKEY™ FACE PLATES



**PT-NK6CSAW-X**



**PT-NKFPLUKF4SAW**



**PT-NKFPLUKF2SAW**



**PT-NKUKS2AW**



**PT-NKUKS4AW-2G**



**PT-NKUKS2SAW**



**PT-NKUKS4SAW-2G**

- Accept all NetKey™ Modules.
- Available in a variety of port densities.
- Optional labels for easy port identification.
- Colour: Arctic White.

Part No:	Description:
<b>PT-NK6CSAW-X</b>	Single gang, 25.4mm x 32mm, shuttered adapter. Compatible with LJU6C frame. Accepts one NetKey Module
<b>PT-NKFPLUKF2SAW</b>	Single gang, 86mm x 86mm, shuttered faceplate with label and icon slots. Accepts two NetKey Modules. Includes two M3.5-0.5 x 30mm panhead mounting screws
<b>PT-NKFPLUKF4SAW</b>	Single gang, 86mm x 86mm, shuttered faceplate with label and icon slots. Accepts four NetKey Modules. Includes two M3.5-0.5 x 30mm panhead mounting screws
<b>PT-NKUKS2AW</b>	Single gang, sloped faceplate kit with labels. Kit includes one 86 x 86mm faceplate frame and sloped insert. Accepts two NetKey Modules
<b>PT-NKUKS4AW-2G</b>	Double gang, sloped faceplate kit with labels. Kit includes one 146mm x 86mm faceplate frame and two sloped inserts. Accepts four NetKey Modules
<b>PT-NKUKS2SAW</b>	Single gang, sloped, shuttered faceplate kit with labels. Kit includes one 86mm x 86mm faceplate frame and one sloped, shuttered insert. Accepts two NetKey Modules
<b>PT-NKUKS4SAW-2G</b>	Double gang, sloped, shuttered faceplate kit with labels. Kit includes one 146mm x 86mm faceplate frame and two sloped, shuttered inserts. Accepts four NetKey Modules

## ► FRAMES



Part No:	Description:
<b>PT-CBUKAWY</b>	86mm x 86mm, single gang faceplate frame with label. Accepts one 1/2 size module insert
<b>PT-CBUKAW-2GY</b>	86mm x 146mm, double gang faceplate frame with labels. Accepts two 1/2 size module inserts
<b>PT-CBAGAW</b>	50mm x 50mm, single gang faceplate frame with labels. Accepts one 1/2 size module insert
<b>PT-FCFPAW</b>	80mm x 80mm, faceplate frame accepts all 50mm x 50mm adapters



## ► NETKEY™ INSERTS



**PT-NKHS2SAW-X**



**PT-NKHS2AW-X**

Part No:	Description:
<b>PT-NKHS2AW-X</b>	1/2 size, sloped modular insert. Accepts two NetKey Modules
<b>PT-NKHS2SAW-X</b>	1/2 size, sloped, shuttered modular insert. Accepts two NetKey Modules.

## ► ADAPTOR



Part No:	Description:
<b>PT-CBFAW</b>	45mm x 45mm adaptor, accepts one 1/2 size module insert

## ► NETKEY™ MODULAR FURNITURE FACEPLATES



► Colour: Off white.

Part No:	Description:
<b>PT-NK4MFIW</b>	Snap-on modular furniture faceplate. Compatible with modular furniture panel cutout dimensions 34mm to 35.56mm – 67mm to 69mm. Accepts up to four NetKey Modules

## ► NETKEY™ SURFACE MOUNT BOXES



**PT-NK2BXIW-A**



**PT-NK4BXIW-AY**



**PT-NK6BXIW-AY**



**PT-CBM-X**

- Accept all NetKey™ Modules.
- Include mounting screws and adhesive tape.
- Compatible with Panduit™ LD3, LD5, and LD10 Raceway.
- Colour: Off white.

Part No:	Description:
<b>PT-NK2BXIW-A</b>	Surface mount box accepts two NetKey Modules
<b>PT-NK4BXIW-AY</b>	Surface mount box accepts four NetKey Modules
<b>PT-NK6BXIW-AY</b>	Surface mount box accepts six NetKey Modules
<b>PT-CBM-X</b>	Optional magnet for mounting on metal surfaces. Compatible with NK2BXIW-A and NK4BXIW-AY



# RACKS & CABLE MANAGEMENT



**PT-R2P**

**PT-WMPV45E**



**PT-SRM19FM2**

**PT-SRM19FM1**



**PT-WMPSE**

**PT-WMP1E**



**PT-CMPH1**



**PT-CMPH2**



**PT-CMPHF1**



**PT-RGS134-10-1Y**



**PT-RGS134-1Y**



**PT-RGCBNJ660P22**

Part No:	Description:
<b>PT-R2P</b>	19 EIA rack aluminium rack. 2134mm x 514mm x 76mm (84.0"H x 20.3"W x 3.0"D). 45 RU
<b>PT-WMPV45E</b>	NetRunner Front and Rear Vertical Cable Manager with dual hinged cover wire retainers and side mount brackets. 45 RU
<b>PT-WMPSE</b>	PatchLink Front and Rear Horizontal Cable Manager with dual hinged cover. 1 RU
<b>PT-WMP1E</b>	PatchLink Front and Rear Horizontal Cable Manager with dual hinged cover. 2 RU
<b>PT-CMPH1</b>	OpenAccess Front and Rear Horizontal Cable Manager with optional snap on cover. 1 RU
<b>PT-CMPH2</b>	OpenAccess Front and Rear Horizontal Cable Manager with optional snap on cover. 2 RU
<b>PT-CMPHF1</b>	OpenAccess Front Only Horizontal Cable Manager with optional snap on cover. 1 RU
<b>PT-SRM19FM1</b>	Rack mount shelf, 13.6 kg capacity, 1 RU
<b>PT-SRM19FM2</b>	Rack mount shelf, 22.6 kg capacity, 2 RU
<b>PT-RGS134-1Y</b>	Rack grounding strip (1.9m length, 17mm width, 1.27mm thickness). Provided with 5cc of antioxidant, one grounding sticker, and three each M6 x 12mm and #12-24 x 1/2 thread-forming screws
<b>PT-RGS134-10-1Y</b>	10 rack grounding strips (1.9m length, 17mm width, 1.27mm thickness). Provided with 5cc of antioxidant, one grounding sticker, and 30 each M6 x 12mm and #12-24 x 1/2 thread forming screws
<b>PT-RGCBNJ660P22</b>	Common bonding network to rack jumper kit. Provided with HTAP that bonds to MCBN sizes ranging from 16mm <sup>2</sup> - 25mm <sup>2</sup>

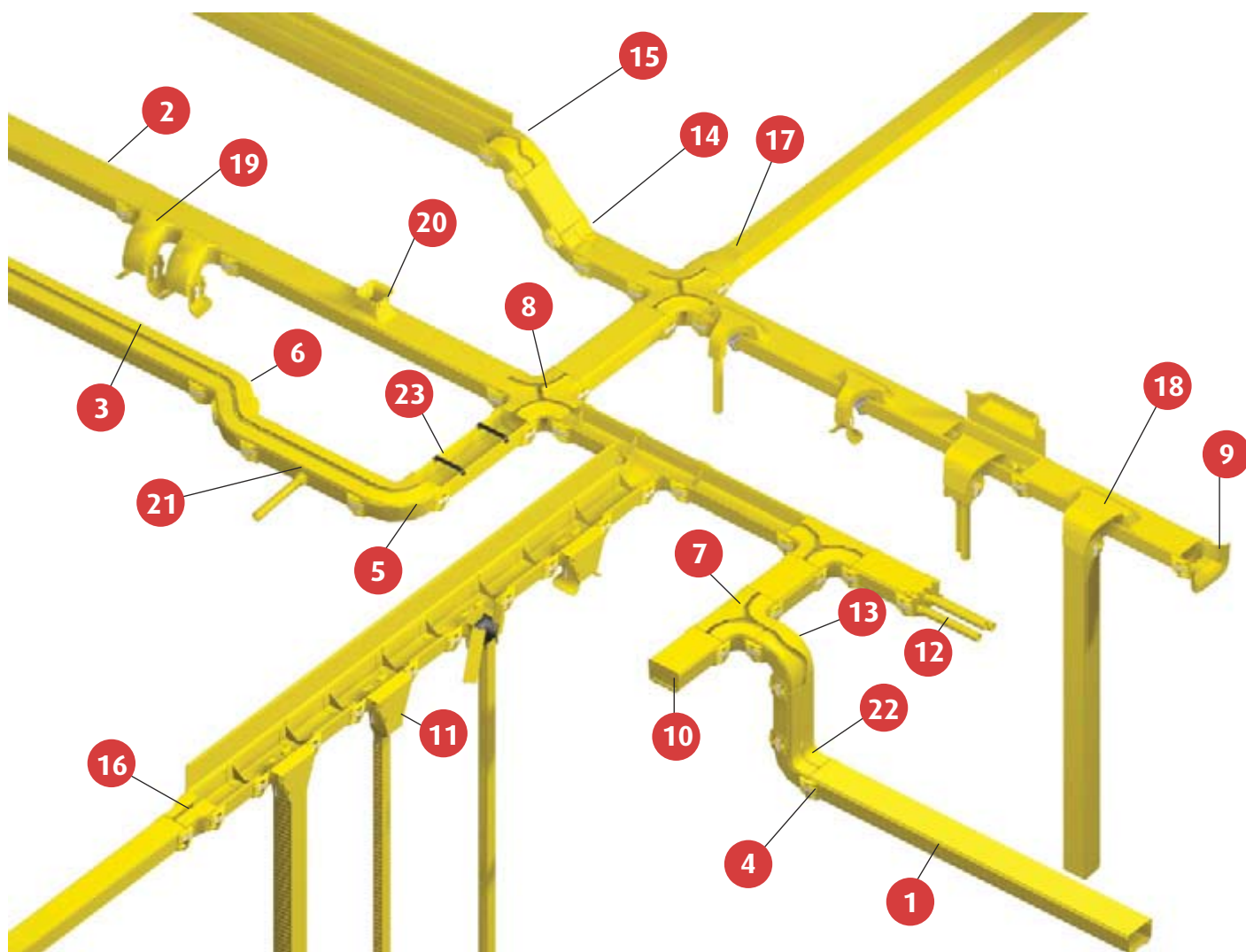


# FIBERRUNNER™ ROUTING SYSTEMS

Panduit™ provides innovative solutions for routing fibre optic and high performance copper cabling to and between equipment racks within a datacentre, telecommunications room or service provider facility. Routing products such as the FiberRunner™ Routing System are critical factors in your ability to quickly install, easily implement moves, add changes and maintain the integrity of your fibre and copper cabling plant in order to maximise long-term performance.

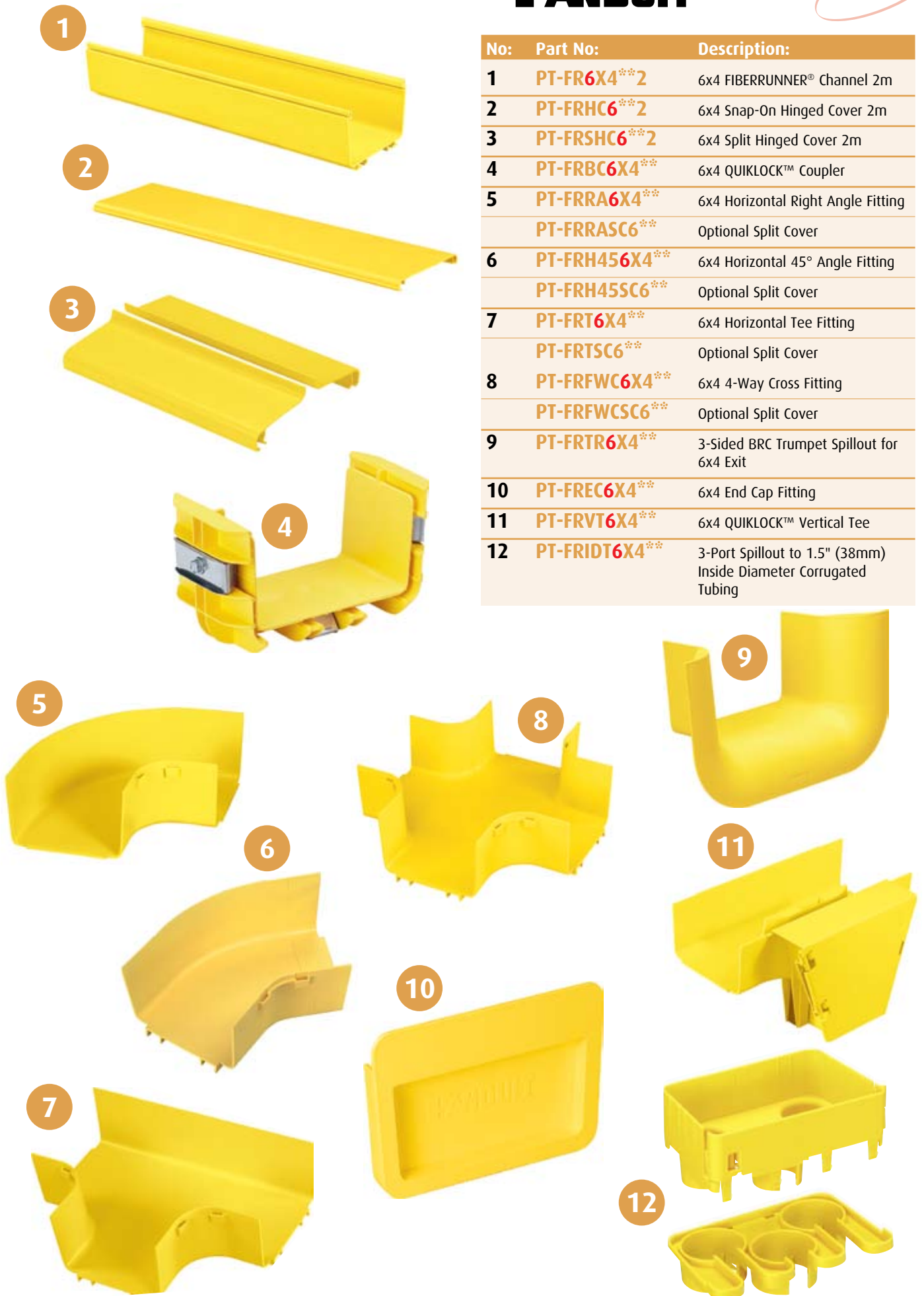
The FiberRunner™ 12x4, 6x4, 4x4 and 2x2 Routing Systems are comprised of channel, couplers, fittings and brackets, designed to segregate, route, and protect fibre optic and high performance copper cabling.

- Robust, large capacity 12x4 and 6x4 systems to handle large cable counts; 4x4 and 2x2 systems for use with smaller cable counts.
- Hinged channel cover and split fitting covers protect cabling and provide easy access for future cabling revisions and additions.
- Fittings provide minimum 2" (50.8mm) bend radius to protect against signal loss due to excessive cable bends.
- Multiple spillout options provide versatility to make transitions to various equipment and rack configurations.
- Compatible with Panduit™ Fiber-Duct™ 4x4 and 2x2 Routing Systems, cable management, and racks.





No:	Part No:	Description:
1	PT-FR6X4**2	6x4 FIBERRUNNER® Channel 2m
2	PT-FRHC6**2	6x4 Snap-On Hinged Cover 2m
3	PT-FRSHC6**2	6x4 Split Hinged Cover 2m
4	PT-FRBC6X4**	6x4 QUIKLOCK™ Coupler
5	PT-FRRA6X4**	6x4 Horizontal Right Angle Fitting
	PT-FRRASC6**	Optional Split Cover
6	PT-FRH456X4**	6x4 Horizontal 45° Angle Fitting
	PT-FRH45SC6**	Optional Split Cover
7	PT-FRT6X4**	6x4 Horizontal Tee Fitting
	PT-FRTSC6**	Optional Split Cover
8	PT-FRFWC6X4**	6x4 4-Way Cross Fitting
	PT-FRFWCSC6**	Optional Split Cover
9	PT-FRTR6X4**	3-Sided BRC Trumpet Spillout for 6x4 Exit
10	PT-FREC6X4**	6x4 End Cap Fitting
11	PT-FRVT6X4**	6x4 QUIKLOCK™ Vertical Tee
12	PT-FRIDT6X4**	3-Port Spillout to 1.5" (38mm) Inside Diameter Corrugated Tubing



\*\* - COLOUR: **YL** = Yellow; **OR** = Orange; **BL** = BLACK. Replace **6** with **4** to create 4 X 4 inch system.





No:	Part No:	Description:
13	PT-FR0VRA6X4**	6x4 Outside Vertical Right Angle Fitting
	PT-FR0VRASC6**	Optional Split Cover
14	PT-FRIV456X4**	6x4 Inside Vertical 45° Angle Fitting
15	PT-FR0V456X4**	6x4 Outside Vertical 45° Angle Fitting
	PT-FR0V45SC6**	Optional Split Cover
16	PT-FRRF6FR4**	6x4 to 4x4 FiberRunner® Reducer Fitting
	PT-FRRF6FR4SC**	Optional Split Cover
17	PT-FRRF64**	6x4 FiberRunner® Fitting to 4x4 Fiber-Duct™ Channel Reducer Fitting
18	PT-FRSP4**	Spill-Over Junction with 4x4 Exit
	PT-FRSP46C**	Optional Cover for 6x4 System
19	PT-FRDDS6X4**	6x4 Dual Downspout
	PT-FRDDSHC6**	Optional Cover for 6x4 Dual Downspout
20	PT-FRUPS6X4**	6x4 Up Spout
21	PT-FR1.5IDE**	1-Port Spillout Side Exit to 1.5" (38mm) Inside Diameter Corrugated Tubing
22	PT-FRIVRA6X4**	6x4 Inside Vertical 90° Angle Fitting
23	PT-FRCR6BL-X	Cable Retainer for 6x4 System

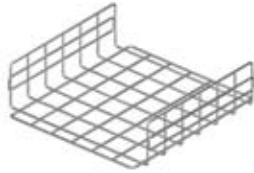
\*\* - COLOUR: **YL** = Yellow; **OR** = Orange; **BL** = BLACK. Replace **6** with **4** to create 4 X 4 inch system.



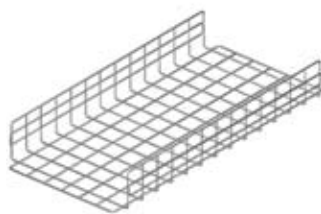
Can't find what you're looking for? Then contact us...

The GridRunner™ Underfloor Cable Routing System is a wire basket pathway designed to route and manage network data and power cabling beneath the raised floor in a datacentre. This innovative system supports high cable capacities, protects cables from damage to improve network performance and is fully electrically bonded to facilitate proper grounding.

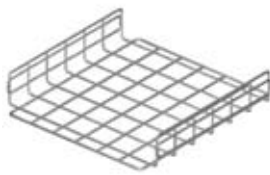
## ► BASKETS



**PT-GR21X6X24PG**



**PT-GR21X6X48PG**



**PT-GR21X4X24PG**



**PT-GR21X4X48PG**

- Drop-in basket sections are supplied in two widths (21" and 12"), two depths (4" and 6"), and two lengths (24" and 48").
- Feature all rounded edges.
- Require no cutting or deburring of sharp edges.
- Accommodate 24" x 24" and 600mm x 600mm raised floor grids.
- Made from pre-galvanised steel wire.

Part No:	Description:
<b>PT-GR21X6X24PG</b>	530mm wide x 150mm deep x 600mm long section
<b>PT-GR21X6X48PG</b>	530mm wide x 150mm deep x 1200mm long section
<b>PT-GR21X4X24PG</b>	530mm wide x 100mm deep x 600mm long section
<b>PT-GR21X4X48PG</b>	530mm wide x 100mm deep x 1200mm long section

## ► BRACKETS



**PT-GRCLAMPPG-X**



**PT-GRPBPG**

- Allows the wire basket sections to be supported on three sides of a single support bracket.
- Forms a mechanical electrical bond to the raised floor pedestal.
- Made from pre-galvanised steel.

Part No:	Description:
<b>PT-GRCLAMPPG-X</b>	Clamp used in conjunction with pedestal bracket to fasten wire basket sections to the pedestal
<b>PT-GRPBPG</b>	Pre-assembled bracket quickly attaches to all 22.2mm square and 25.4mm diameter raised floor pedestals

## ► ACCESSORIES



**PT-GRBRC4PG**



**PT-GRBRC6PG**

Part No:	Description:
<b>PT-GRBRC4PG</b>	Bend radius corner for 4 inch deep basket creates 38mm bend radius control
<b>PT-GRBRC6PG</b>	Bend radius corner for 6 inch deep basket creates 38mm bend radius control
<b>PT-GRFWC21PG</b>	Mounts to pedestal bracket to create four way cross, horizontal tee, right angles and transitions to other size wire basket sections



**PT-GRCLAMPPG-X**

Attaches to GRPBPG pedestal bracket to provide secure connection and electrical bond to raised floor support pedestal.

Part No:	Description:
<b>PT-GRCL21X6PG</b>	21 x 6 inches level change section used to create vertical offsets up to 12 inches
<b>PT-GRCL21X4PG</b>	21 x 4 inches level change section used to create vertical offsets up to 12 inches



# Prism's BIG 'O' Cabinet



A dynamic solution to the challenges of cable management.

## Prism's NEW BIG 'O' cabinet

Prism's Big 'O' advanced high density patching frame offers a dynamic solution to the challenges of cable management. It is designed to meet the evolving demands of high density cabling applications in the data centre field. It is user friendly, flexible and durable. The Big 'O' is easy to assemble, has a variety of configuration options, and guarantees the effective utilisation of available space. It promises your network protection, and peak performance.

### 19" Server Cabinet Typical Installation

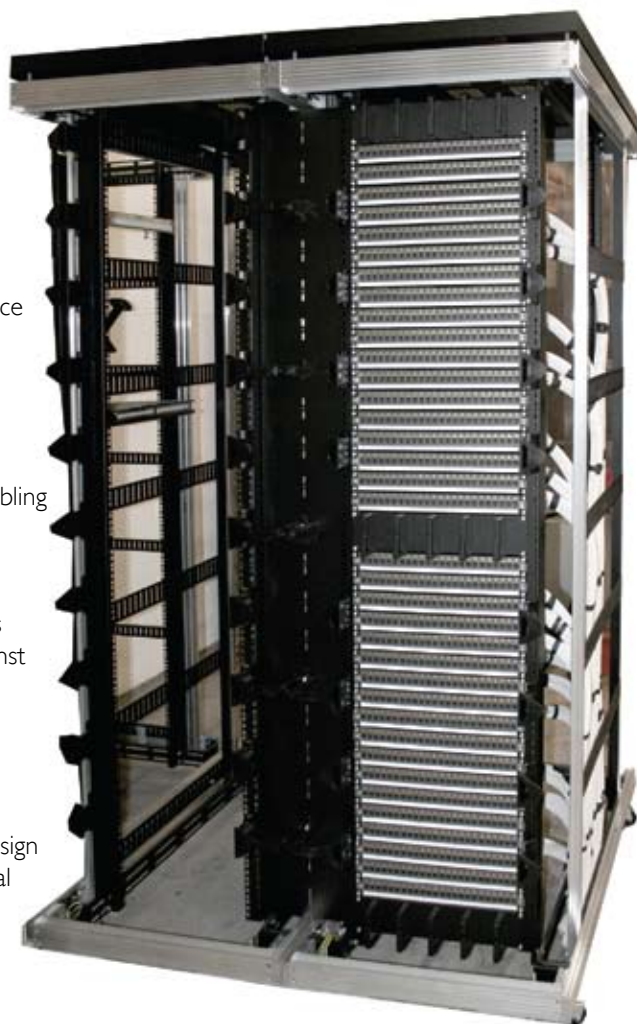
- Data centre patch field installations
- High density patching solutions

### Benefits and Features

- A complete solution which maximises network performance and ensures its longevity
- An ideal platform for the effective management and organisation of structured cabling equipment
- Negates the need for horizontal cable management
- Variable sizes designed to utilise space within data centre
- Top trough with built-in waterfall ensures optimal patch cabling routing, and complementary bend radius control
- User friendly and easy to assemble on-site
- Can accommodate all types of cabinet door solutions
- Can be used on solid floors, plinths, or raised access floors
- Durable powder coat finish, in three colours, protects against scratches and fingerprint damage

### Additional Options

- Mesh or glass doors available, wardrobe or single piece design
- Central double width cable management panel with central 2 prong plastic management and cable retaining arms
- Lockable and split sliding slide panels available
- Single end cable management panels with single and double depth cable rings
- Overhead cable raceway systems



NOW AVAILABLE @ **networkscentre**  
CONTACT US NOW FOR MORE INFORMATION!

prism™

Innovative enclosure solutions



01403 754 233



enquiries@networkscentre.com



01403 750 663



www.networkscentre.com





# TELECOMS/VOICE PRODUCTS

Networks Centre offer Net-C's comprehensive range of telecom/voice products, at extremely competitive prices.

➤ Cable	136
➤ Connection Strips/Boxes/ Panels	137
➤ Adaptors	138

**net-c™**



01403 754 233

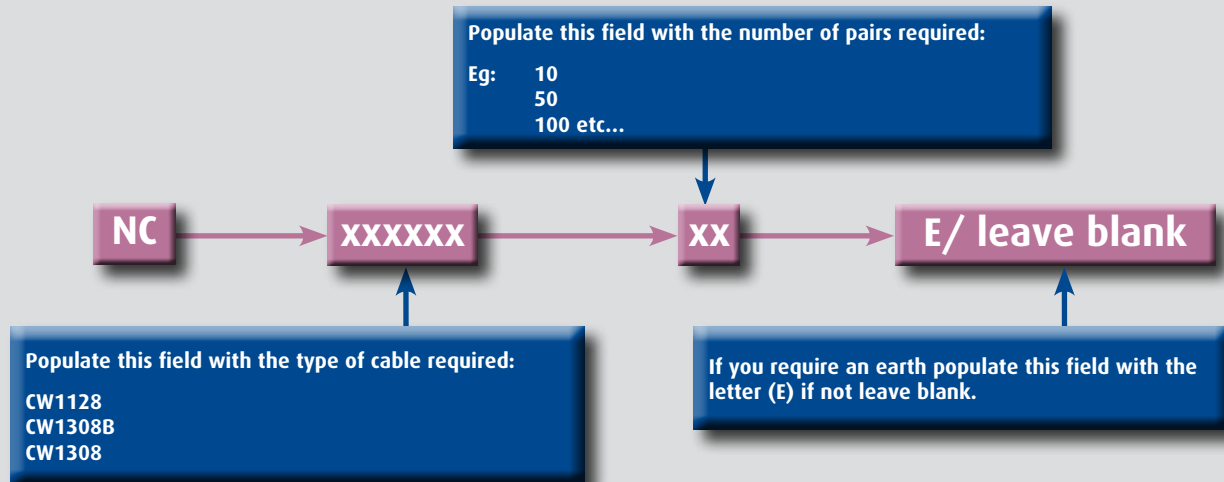


@ enquiries@networkscentre.com



www.networkscentre.com

## HOW TO CREATE OUR VOICE CABLING PART NUMBERS



Eg: NC-CW1128-50-E = Net-C 50 PAIR CW1128 VOICE CABLE GEL FILLED EXTRENAL CABLE WITH EARTH

### > GEL FILED EXTERNAL VOICE CABLE



Multi-pair external grade telephone cables are compliant with CW1128 and for steel wire armoured version CW1128-1198. The cables are grease filled for moisture protection and suitable for direct burial.

#### Features:

- > UV and moisture resistant.
- > Suitable for direct burial by market share for the last three years.
- > 0.5mm conductor size.

Part No:	Description:
<b>CW1128</b>	Net-C CW1128 voice cable gel filled external
<b>CW1128-98</b>	Net-C CW1128-98 armoured voice cable gel filled external

- > 1) Conductor
  - > Diameter: 0.50 mm Nominal.
  - > Elongation: Min. 15%.
- > 2) Insulation
  - > Each conductor insulated with Foam Skin HDPE material.
  - > Insulation Diameter: 0.90 mm Nom.

#### Cable Core Wrapping:

The cable core wrapped with the longitudinal application of non-hygroscopic and non wicking polyester tape of suitable thickness and wrapped with nylon binder.

**Filling:** The interstices of cable core completely filled with cable filling compound.

**Inner Sheath:** The laid up cable is sheathed with Black Polyethylene (LLDPE) compound.

### > INTERNAL/EXTERNAL VOICE CABLE



The following range of multi-pair telephone cables are constructed in a similar way to Standard CW1308 but are suitable for internal and external use due to a UV resistant jacket. The cable's specification is further enhanced by the use of Low Smoke Zero Halogen (LSOH) Outer Sheath.

#### Features:

- > Internal/External grade.
- > Integral 1/1.38mm earth conductor.
- > Save installation time and cost.
- > 0.5mm conductor size.
- > Black LSOH outer sheath.

Part No:	Description:
<b>CW1308B</b>	Net-C CW1308B voice cable internal/external cable with/without earth

#### Specification:

- > 1) Conductor
  - > Diameter: 0.50 mm Nominal.
  - > Elongation: 18 to 24%.
- > 2) Insulation
  - > Each conductor insulated with PVC as per BS 6746.
  - The insulated conductor spark test at 4.5 KVDC.
  - > Ring marking consist of ink bands on base colour. Markings identifiable in every 16 mm length. Markings occupy between 20 and 30% of the total area of insulation.
  - > Diameter Over Dielectric: Avg. 0.85 +/- 0.005 mm
- > 3) Earth Conductor
  - > Conductor Diameter: 1.38 mm Nominal.
  - > Insulation Diameter: 2.70 +/- 0.05 mm
  - > Colour of Insulation: Cream

#### Cable Core Wrapping:

The cable core and PVC Insulated Earth Conductor wrapped with the longitudinal application of non-hygroscopic and non-wicking polyester tape of thickness 0.036 mm minimum and wrapped with nylon binder.

**Sheathing:** The laid up cable should be sheathed with LSOH Type Black Compound with the longitudinal application of APL Foil.



Can't find what you're looking for? Then contact us...

## ► INTERNAL VOICE CABLE



The following range of multi-pair internal telephone cables are manufactured in accordance with BT type CW1308. These cores are twisted into pairs and the required number of pairs are then laid up in either layers for cables containing up to and including 25 pairs, or in units for items of 32 pairs and above, the pairs are colour coded for ease of identification. An earth conductor of 1.38mm plain copper is included where shown.

### Features:

- 0.5mm conductor size.
- LSOH or PVC sheath options.
- Cut to length service.

Part No:	Description:
<b>CW1308</b>	Net-C CW1308 voice cable internal with / without earth

### Cable Core Wrapping:

The cable core and PVC insulated earth conductor wrapped with the longitudinal application of non-hygroscopic and non-wicking polyester tape of thickness 0.036 mm minimum and wrapped with nylon binder.

### Sheathing Stage:

- 1) LSF WHITE PVC or PVC grey compound
  - Conductor
  - Diameter: 0.50 mm Nominal.
  - Elongation: 18 to 24%.
- 2) Insulation
  - Each conductor insulated with PVC as per BS 6746. The insulated conductor spark test at 4.5 KVDC.
  - Ring marking consist of ink bands on base colour. Markings identifiable in every 16 mm length. Markings occupy between 20 and 30 % of the total area of insulation.
  - Diameter Over Dielectric: Avg. 0.85 +/- 0.005 mm
- 3) Earth Conductor
  - Conductor Diameter: 1.38 mm Nominal.
  - Insulation Diameter: 2.70 +/- 0.05 mm
  - Colour of Insulation: Cream

## ► KRONE STYLE 10 PAIR IDC CONNECTION BLOCK



- Comes as standard in cream.
- Can be disconnected for testing.

Part No:	Description:
<b>NC-237A</b>	Net-C 10 pair disconnection strip

## ► LABEL HOLDER FOR IDENTIFICATION OF 237 STYLE CONNECTION BLOCKS



Part No:	Description:
<b>NC-51A</b>	Net-C 51A designation strip.

## ► TELEPHONE VOICE PANEL



Net-C voice panels are a cost effective method for terminating multi-pair telephone cables. All the panels we offer are 19" for rack mounting and 1U high. The panels are available as a 25 port with all the RJ45 presentations in one line and a high density 50 port with the RJ45 presentations in two rows of 25. The panels have built in rear cable management as standard and each port is individually numbered for identification. Net-C voice panels are supplied as either 4 wire (3/6, 4/5) or 6 wire (1/2, 3/6, 4/5) with LSA Krone style IDC blocks.

- Upto 50 x RJ45 ports in 1u Rack space
- Supplied with cable ties and cage nuts
- Built-in rear cable management
- Material – High carbon steel
- Colour – Black powder coating
- Termination – LSA style IDC
- Dimensions: Width – 484mm; Height – 44mm; Depth – 132mm/163mm

Part No:	Description:
<b>NC-PAT-25-VP-4</b>	25 port UTP telephone voice panel Krone IDC 4 wire
<b>NC-PAT-25-VP-6</b>	25 port UTP telephone voice panel Krone IDC 6 wire
<b>NC-PAT-50-VP-4</b>	50 port UTP telephone voice panel Krone IDC 4 wire
<b>NC-PAT-50-VP-6</b>	50 port UTP telephone voice panel Krone IDC 6 wire



## ➤ 20 PAIR VOICE CABLE CONNECTION BOX



- Accepts two 237a style connection blocks.
- Available in internal and external.

Part No:	Description:
<b>NC-CB-201A</b>	Net-C 20 pair internal connection box

## ➤ 50 PAIR VOICE CABLE CONNECTION BOX



- Accepts up to five 237a style connection blocks.
- Available in internal and external.

Part No:	Description:
<b>NC-CB-251A</b>	Net-C 50 pair internal connection box
<b>NC-CB-251A-EX</b>	Net-C 50 pair external connection box

## ➤ 100 PAIR VOICE CABLE CONNECTION BOX



- Accepts up to ten 237a style connection blocks.
- Available in internal and external.

Part No:	Description:
<b>NC-CB-301A</b>	Net-C 100 pair internal connection box
<b>NC-CB-301A-EX</b>	Net-C 100 pair external connection box

## ➤ TAILED VOICE ADAPTOR



- Plugs into an RJ45 socket converting it into a voice outlet for attachment of a telephone or fax.
- Comes with a 10cm fly lead (other lengths available).
- Available in PSTN Master, PABX Master, or secondary versions.

Part No:	Description:
<b>NC-VA-MASTER</b>	Full master tailed voice adaptor
<b>NC-VA-SECONDARY</b>	Secondary tailed voice adaptor
<b>NC-VA-PABX</b>	PABX master – RJ45 tailed voice adaptor





# CABINETS & RACKS

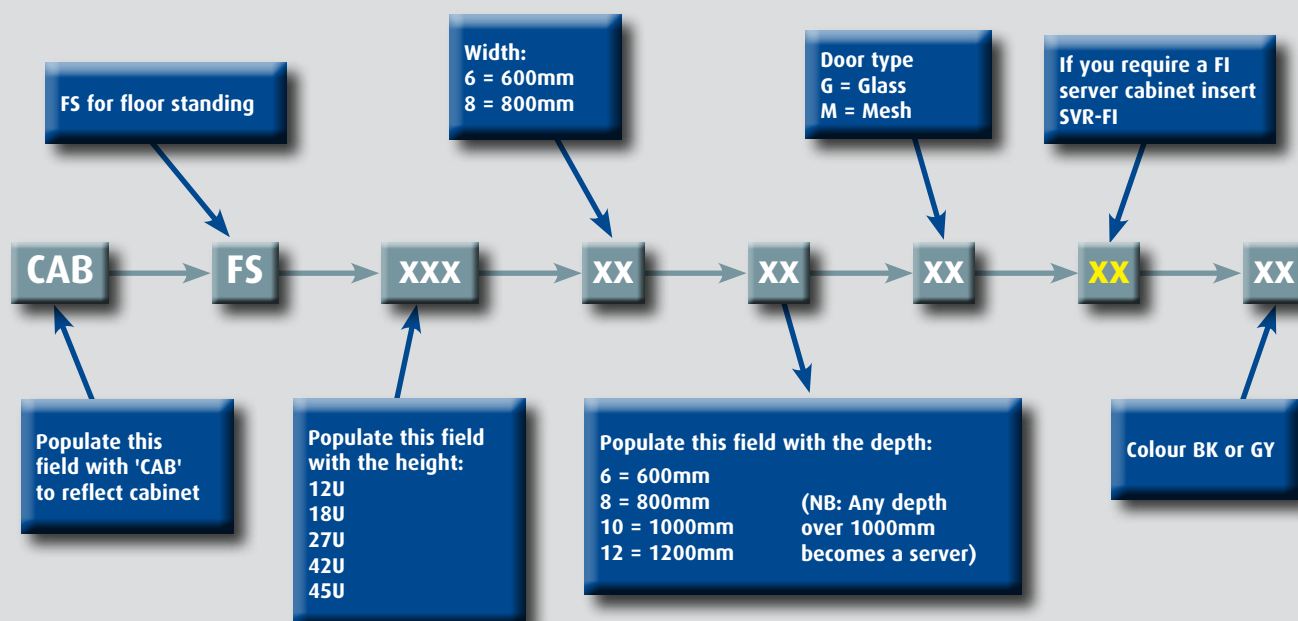
PRISM are one of the UK's leading manufacturers of high quality server racks, data cabinets and server rack accessories. Networks Centre distributes their complete range of products, offering a next day delivery service.

➤ FI & PI Cabinets	140
➤ Wall Mounted Cabinets	142
➤ Fan Trays	143
➤ Power Distribution	143
➤ Cable Management	144
➤ Plinths	145
➤ Shelves	146
➤ High Density Patching Frames	147



prism

## HOW TO CREATE OUR CABINET PART NUMBERS



Eg: CAB-FS-45U-8-10-M-SVR-FI-BK = 47U 800 X 1000 FLOOR STANDING FI SERVER CABINET MESH DOOR BLACK

## > PI DATA CABINETS



Cabinets can be fitted with a range of options including side panels, solid steel doors, vented glazed doors and vented steel doors all designed to offer the flexibility to meet everyday requirements.

### Typical Applications:

- > Networking/Cabling/Broadcast.
- > 19" Electronic Equipment Housing.
- > Communication Systems.
- > IT Systems.

### Features:

- > Enclosed glass front door with slam latch lock.
- > Lockable rear metal door with low level venting.
- > Vented and lockable side panels.
- > Raised and vented top cover with cable entry.
- > Transport castors.
- > Open base design.
- > Vertical cable management (800mm wide only).
- > Fully adjustable 19" mounting profiles.
- > Earth bonding kit.
- > Full range of complementing accessories.
- > Supplied assembled or in flat pack option.
- > Multiple door configurations available.
- > Configurable roof options to cater for overhead cable installations.
- > Full range of airflow management accessories.



Can't find what you're looking for? Then contact us...

## ► PI SERVER CABINETS



The internal mounting profiles have been designed to accommodate all of today's server manufacturers products and with the use of the mid profiles supplied and number of different depths of products, can be accommodated within the one enclosure.

### Typical Applications:

- Datacentres / Comms rooms.
- 19" Server Equipment Housing.
- Communication Systems.
- Structured cabling / multi vendor installations.

### Features:

- Enclosed glass front door with mesh surround.
- Lever latch lock with 3 point locking system.
- Lockable rear metal door with 64% airflow mesh.
- Lockable side panels with high and low level venting.
- Raised and vented top cover with cable entry.
- Open base design.
- Vertical cable management (800mm wide only).
- Fully adjustable 'vendor neutral' 19" mounting profiles.
- Mid style multiple depth mounting profiles.
- Earth bonding kit Full range of complementing accessories.
- Transport castors.
- Supplied assembled or in flat pack option.
- Multiple door configurations available.
- Configurable roof options to cater for overhead cable installations.
- Open base design with plate options to maintain security.
- Full range of airflow management accessories.
- High density power and cooling options.

## ► FI SERVER CABINETS



The range has been specifically designed to minimise weight where high densities of racks are required. The aluminium frame provides superior strength holding up to 1300kg and with its reduced weight is easily moved into any location. There are a number of cable access points supplied in the top of the cabinet as well as a complete open base type design.

### Typical Applications:

- Datacentres.
- Networking/Cabling.
- 19" Electronic Equipment Housing.
- Communication Systems.
- IT Systems.

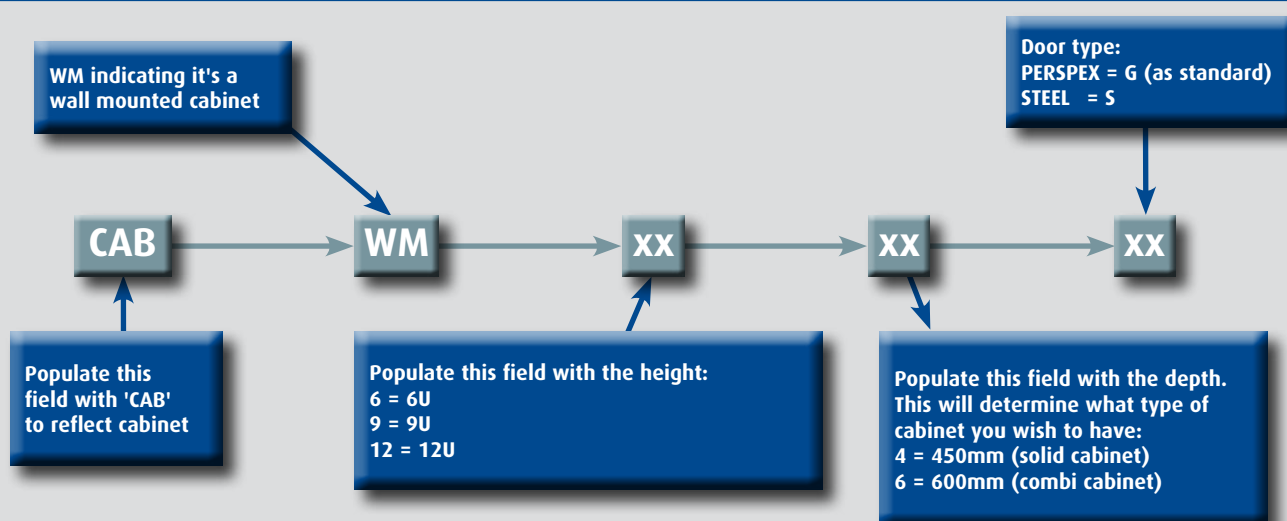
### Features:

- Bolted aluminium frame construction.
- Lockable front door with 83% airflow mesh and three point locking.
- Lockable rear door with 83% airflow mesh and three point locking.
- Pair of lockable side panels.
- 4 x 19" universal adjustable (heavy duty) mounting profiles.
- Pair of 19" mid style (heavy duty) mounting profiles.
- Raised top cover with 3 x cable entry points.
- Set of heavy duty castors.
- Set of cabinet feet.
- Standard colour black.
- Split sliding side panels.
- Overhead roof cabling channels.
- Custom footprint sizes.





## HOW TO CREATE OUR WALL CABINET PART NUMBERS



Eg: CAB-WM-12U-6-4-G = 12U LOCKABLE WALL MOUNTED CABINET 600MM WIDE AND 450MM DEEP GLASS DOOR GREY

### ➤ FIXED – LOCKABLE WALL MOUNTED CABINET



Designed with Health and Safety in mind, the metal framed door is fitted with a perspex panel to ensure there are no logistic damages or safety issues in location. The product is designed to be universal in its fixing position and can be installed to allow the door to be opened from the left and the right hand side and this can be changed at any time of the product life. The unique fixing method on the rear panel allows a single engineer installation by attaching the frame of the wall cabinet after the fixings have been part installed on the wall. A full range of wall cabinet accessories can be supplied with each range including fan units, shelves and power unit options. As with all of the Prism products the wall mounted enclosures can be supplied in any of the standard colour variants.

- Welded construction.
- Lockable perspex front door in a steel surround (over 180° door opening with quick release pins).
- 2 x 19" adjustable mounting profiles.
- Cable entry points top, bottom and rear with gland plates.
- Vented sides.
- Earth bonding kit.

### ➤ COMBI/2 SECTION – WITH REMOVABLE LOCKABLE SIDE DOORS



its fixing position and can be installed to allow the door to be opened from the left and the right hand side and this can be changed at any time of the product life. The unique fixing method on the rear panel allows a single engineer installation by attaching the frame of the wall cabinet after the fixings have been part installed on the wall. A full range of wall cabinet accessories can be supplied with each range including fan units, shelves and power unit options. As with all of the Prism products the wall mounted enclosures can be supplied in any of the standard colour variants.

- Welded construction.
- Detachable rear section 100mm deep; front section 450mm deep.
- Lockable perspex front door in a steel surround (over 90° door opening with quick release pins).
- 2 x 19" adjustable mounting profiles.
- Cable entry points top, bottom and rear with gland plates
- Vented sides.
- Lift off hinges connecting front and rear sections.
- Designed for single person installation.

Designed with Health and Safety in mind, the metal framed door is fitted with a perspex panel to ensure there are no logistic damages or safety issues in location. The product is designed to be universal in



Can't find what you're looking for? Then contact us...



# FAN TRAYS

## ► ROOF MOUNTED



Part No:	Description:
CAB-FT-2-RM	2 way roof mounted fan tray
CAB-FT-4-RM	4 way roof mounted fan tray

## ► HIGH SPEED ROOF MOUNTED



Part No:	Description:
CAB-FT-4-HS	4 way high speed roof mounted fan tray

## ► RACK MOUNTED



**MORE OPTIONS  
AVAILABLE**  
Please call for  
more information

- Quiet fans (27db) fitted as standard.
- High speed fans are available for increased heat dispersion.
- Roof and rack mounted fans are suitable for all wall mounted cabinets.
- Supplied with a 3 metre main lead.
- Durable welded construction.

Part No:	Description:
CAB-FT-4-RK	4 way rack mounted fan tray
CAB-FT-3-RK	3 way rack mounted fan tray
CAB-FT-2-RK	2 way rack mounted fan tray

# POWER DISTRIBUTION

## ► PDU



Part No:
CAB-PDU-XX-V
XX = Size. eg. 04 = 4 WAY (Available in 4, 6, 8, 10 and 12 way).
For a Horizontal PDU just add -H

## ► BLANKING PANELS



Part No:	Description:
<b>CAB-BP-1U</b>	1U blanking panel
<b>CAB-BP-2U</b>	2U blanking panel
<b>CAB-BP-3U</b>	3U blanking panel

## ► BRUSH STRIP PANELS



Part No:	Description:
<b>CAB-BSP-1U-BK</b>	1U brush strip panel black
<b>CAB-BSP-2U-BK</b>	2U brush strip panel black

## ► CABLE MANAGEMENT BARS



Part No:	Description:
<b>CMB-4-1U-BK</b>	1U 4 ring cable management
<b>CMB-4-2U-BK</b>	2U 4 ring cable management

## ► CABLE TRAYS



Part No:	Description:
<b>CAB-CT-12-150</b>	12U 150mm Cable Tray
<b>CAB-CT-12-300</b>	12U 300mm Cable Tray
<b>CAB-CT-18-150</b>	18U 150mm Cable Tray
<b>CAB-CT-18-300</b>	18U 300mm Cable Tray
<b>CAB-CT-27-150</b>	27U 150mm Cable Tray
<b>CAB-CT-27-300</b>	27U 300mm Cable Tray
<b>CAB-CT-39-150</b>	39U 150mm Cable Tray
<b>CAB-CT-39-300</b>	39U 300mm Cable Tray
<b>CAB-CT-42-150</b>	42U 150mm Cable Tray
<b>CAB-CT-42-300</b>	42U 300mm Cable Tray
<b>CAB-CT-45-150</b>	45U 150mm Cable Tray
<b>CAB-CT-45-300</b>	45U 300mm Cable Tray

## ► CAGE NUTS, SCREWS AND WASHERS



► Pack of 50

**Part No:**  
**CAGENUT50**

## ► CABINET BAYING KIT



**Part No:**  
**CAB-BAYKIT**

## ► HEAVY DUTY CASTORS

**Part No:**  
**CAB-CASTOR-HD**

## ► ADJUSTABLE CABINET FEET

**Part No:**  
**CAB-FEET**



Can't find what you're looking for? Then contact us...

## ► PI DATA CAB PLINTHS



Part No:	Description:
<b>CAB-PL-6-6</b>	PI Data Cabinet Plinths 600mm X 600mm X100mm
<b>CAB-PL-6-8</b>	PI Data Cabinet Plinths 600mm X 800mm X100mm
<b>CAB-PL-8-6</b>	PI Data Cabinet Plinths 800mm X 600mm X100mm
<b>CAB-PL-8-8</b>	PI Data Cabinet Plinths 800mm X 800mm X100mm

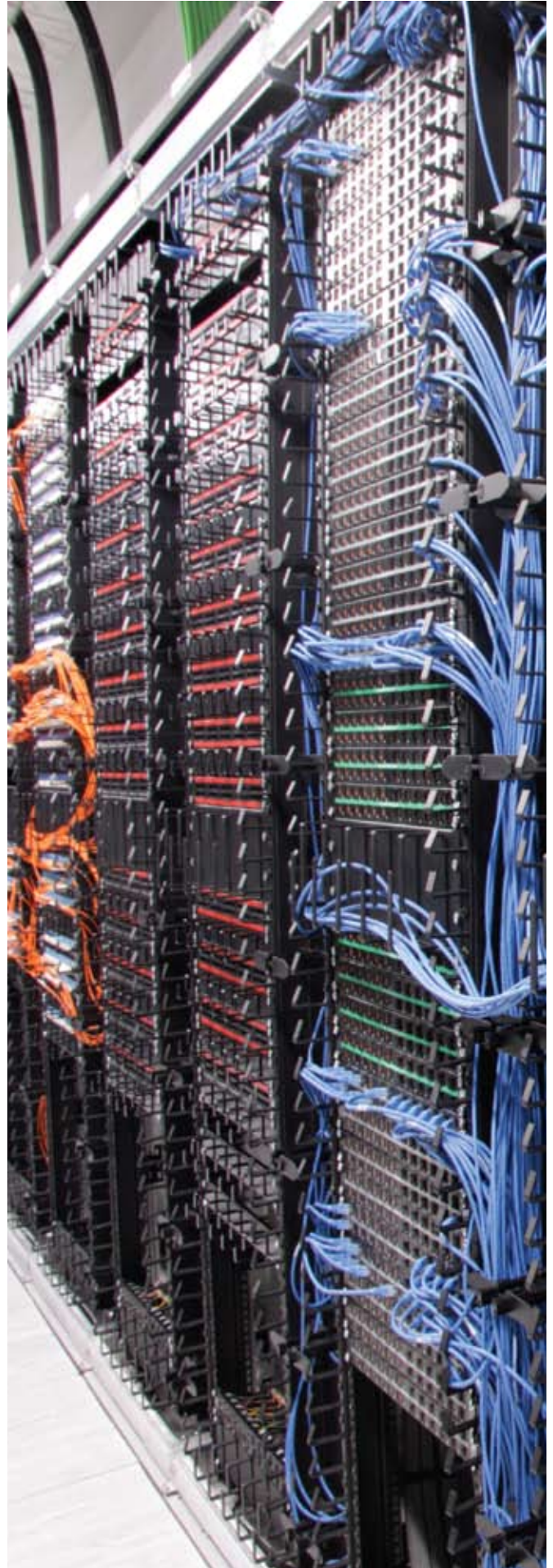
## ► FI SERVER PLINTHS



Part No:	Description:
<b>CAB-FI-PL-6-10-ARM</b>	FI 600 X 1000 Plinth With Opening Stabilising Arm
<b>CAB-FI-PL-6-12-ARM</b>	FI 600 X 1200 Plinth With Opening Stabilising Arm
<b>CAB-FI-PL-8-10-ARM</b>	FI 800 x 1000 Plinth With Opening Stabilising Arm
<b>CAB-FI-PL-8-12-ARM</b>	FI 800 x 1200 Plinth With Opening Stabilising Arm

## ► PI SERVER PLINTHS

Part No:	Description:
<b>CAB-PL-6-10-ARM</b>	PI Server 600 X 1000 Plinth With Opening Stabilising Arm
<b>CAB-PL-6-12-ARM</b>	PI Server 600 X 1200 Plinth With Opening Stabilising Arm
<b>CAB-PL-8-10-ARM</b>	PI Server 800 x 1000 Plinth With Opening Stabilising Arm
<b>CAB-PL-8-12-ARM</b>	PI Server 800 x 1200 Plinth With Opening Stabilising Arm





# SHELVES

## ➤ FIXED VENTED



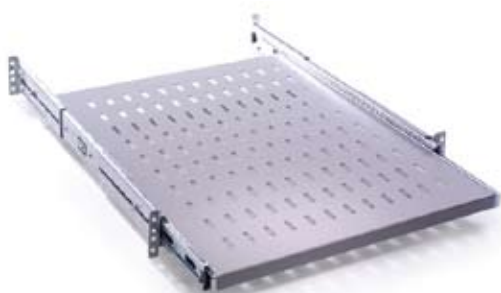
Part No:	Description:
<b>CAB-SH-450-F</b>	PI 450mm fixed vented shelf
<b>CAB-SH-570-F</b>	PI 570mm fixed vented shelf
<b>CAB-SH-720-F-SVR</b>	PI 720mm fixed vented shelf

## ➤ FRONT MOUNT



Part No:	Description:
<b>CAB-SH-200-FM</b>	PI 1U 200mm front mount shelf
<b>CAB-SH-300-FM</b>	PI 1U 300mm front mount shelf
<b>CAB-SH-400-FM</b>	PI 2U 400mm front mount shelf

## ➤ TELESCOPIC



Part No:	Description:
<b>CAB-SH-450-T</b>	PI 450mm telescopic shelf
<b>CAB-SH-720-T-SVR</b>	PI 720mm telescopic shelf
<b>CAB-SH-570-T</b>	PI 570mm telescopic shelf

## ➤ ROTATING



- Ideal for housing standard keyboards, which are wider than the 19" aperture.
- Includes pull out mouse tray

Part No:	Description:
<b>CAB-SH-KEY</b>	PI 1U rotating keyboard shelf

## ➤ ADJUSTABLE DEPTH



Part No:	Description:
<b>CAB-SH-ADJ</b>	PI 1U adjustable depth shelf

**MORE OPTIONS  
AVAILABLE**  
Please call for  
more information



Can't find what you're looking for? Then contact us...



# HIGH DENSITY PATCHING FRAMES



The HDPF racking system is designed for the installation of structured cabling products as well as a number of active products. Utilising the vertical management arms supplied with the product, this allows the client to accommodate moves and changes and access to all cables throughout the life of the installation. The HDPF can be installed in a stand alone installation or back to back, to provide additional depth and space utilisation. There are a range of complimenting accessories including plinth solutions, Power Distribution Units, door and side panel options.

## Typical Applications:

- Server/Datacentres
- 19" Electronic Equipment Housing
- Communication Systems
- IT Systems

## Standard Features:

- Fully assembled welded steel construction
- An individual free standing unit or wall mounting unit
- Can be installed side-by-side and back-to-back
- Reduced footprint with high density cabling capabilities
- No sharp edges or tight corners (all edges are radiused to prevent chaffing of cable)
- Rack is complete with 12 tubular, side cable management arms allowing ease of patching from side to side
- Large base and roof apertures for cable loom entry
- Comprehensive earth bonding points included
- Front doors available, plain steel, glazed and wardrobe style
- Side panels, lockable and removable
- Fixing points provided in the base for securing to the floor
- Raised and slab plinth options



## FRAMES

Part No:	Description:
<b>CAB-HDPF27U</b>	27u High Density Patching Frame (750mm W x 1495mm H x 450mm D)
<b>CAB-HDPF42U</b>	42u High Density Patching Frame (750mm W x 2161mm H x 450mm D)
<b>CAB-HDPF45U</b>	45u High Density Patching Frame (750mm W x 2294mm H x 450mm D)

## SIDE DOORS

Part No:	Description:
<b>CAB-HDPF-SP-27U</b>	27u Lockable Side Panel (1396mm H)
<b>CAB-HDPF-SP-42U</b>	42u Lockable Side Panel (2062mm H)
<b>CAB-HDPF-SP-45U</b>	45u Lockable Side Panel (2195mm H)





## ► PLAIN STEEL DOORS

Part No:	Description:
<b>CAB-HDPF-PD-27U</b>	27u Plain Steel Front Door (1173mm H)
<b>CAB-HDPF-PD-42U</b>	42u Plain Steel Front Door (1839mm H)
<b>CAB-HDPF-PD-45U</b>	45u Plain Steel Front Door (1972mm H)

## ► GLAZED FRONT DOORS

Part No:	Description:
<b>CAB-HDPF-GD-27U</b>	27u Glazed Front Door (1173mm H)
<b>CAB-HDPF-GD-42U</b>	42u Glazed Front Door (1839mm H)
<b>CAB-HDPF-GD-45U</b>	45u Glazed Front Door (1972mm H)

## ► SPLIT MESH FRONT DOORS

Part No:	Description:
<b>CAB-HDPF-GDS-27U</b>	27u Split Mesh Front Door (1173mm H)
<b>CAB-HDPF-GDS-42U</b>	42u Split Mesh Front Door (1839mm H)
<b>CAB-HDPF-GDS-45U</b>	45u Split Mesh Front Door (1972mm H)

## ► CABLE MANAGEMENT



Part No:	Description:
<b>CAB-HDPF-TM</b>	HDPF tubular management

Part No:	Description:
<b>CAB-HDPF-BAYKIT</b>	HDPF baying kit

Part No:	Description:
<b>CAB-HDPF-TCM</b>	High density patching frame tubular side cable management



# TEST & MEASUREMENT

Networks Centre stock and distribute Fluke Networks' complete range of copper and optical testers; for frontline trouble shooting and certification. Fluke Networks are the number one leading network tester brand and can offer a solution for any kind of testing eventuality.

Networks Centre also stock a cost efficient range of optical light source and power meters, visual fault locators and thermal imaging cameras; manufactured by OWL, Hobbs and Flir.

➤ Copper/ Fibre Certification	150
➤ OTDR Testing	156
➤ Fibre Fault Finding	158
➤ Fibre Loss Test Kits	160
➤ Fibre Inspection	161
➤ Fibre Accessories	162
➤ Network Testers	163
➤ Gold Support	165
➤ OWL	166
➤ Flir Thermal Imaging Cameras	167

**FLUKE**  
networks™



## ► DTX-CABLE ANALYZER



### At a Glance:

- DTX significantly reduces total certification costs up to 33% a year.
- Three times faster than existing testers with 9-second Cat6 autotest independently verified by UL to meet ISO Level IV and TIA Level III Accuracy requirements.
- Analyse test results and create professional test reports using LinkWare reporting software.
- Verify the availability of network and IP services using the Network Service Module.
- Perform basic fibre certification five times faster with DTX Fibre Module.
- Perform extended fibre certification with DTX Compact OTDR.

### Product Capabilities:

The DTX Cable Analyzer Series from Fluke Networks is the testing platform for today – and tomorrow. This revolutionary new future-proof platform significantly reduces total time to certify by improving every aspect of the testing process.

It all starts with 9-second Cat6 Autotest that means you can meet TIA-568-C and ISO 11801:2002 certification requirements and receive structured cabling warranties much faster than ever before. With all this speed also comes increased accuracy.

The DTX is the only independently verified tester to obtain UL classification for ISO Accuracy Level IV. And, the DTX 10 Gig Copper Kit together with DTX-1800 delivers on the promise of a future-proof investment – measuring 10 Gig cabling performance and Alien Crosstalk (ANEXT and AFEXT) in full compliance with the industry standards to 500 MHz.

The AC Wiremap feature validates twisted-pair cabling for Power over Ethernet services in accordance with TIA/EIA standards, even if a Midspan power supply is used.

With the DTX Series, you're ready for whatever the world throws at you – today and tomorrow.

### DTX-1800 Cable Analyzer

Includes:

- DTX-1800 Main and Smart Remote
- LinkWare PC Software
- 128MB MMC Card
- Cat6A/Class EA Permanent Link Adapters (2)
- Cat6/Class E Channel Adapters (2)
- Headsets for Talk (2)
- AC Chargers (2)
- Carrying Case
- USB Interface Cable (Mini-B)
- Serial RS-232 Cable (DB9 to IEEE1394)
- User Manual

Part No:	Description:
<b>DTX-1800</b>	DTX-1800 cable analyzer 900mhz certification tester

### DTX-1200 Cable Analyzer

Includes:

- DTX-1200 Main and Smart Remote
- LinkWare PC Software
- Cat6/Class E Permanent Link Adapters (2)
- Cat6/Class E Channel Adapters (2)
- Headsets for Talk (2)
- AC Chargers (2)
- Carrying Case
- USB Interface Cable (Mini-B)
- User Manual

Part No:	Description:
<b>DTX-1200</b>	DTX-1200 cable analyzer 350mhz certification tester for up to Cat6





Part No:	Description:
<b>DTX-1800-M</b>	DTX-1800 with DTX-MFM2 MM fibre modules
<b>DTX-1200-MS</b>	DTX-1200 with DTX-MFM2 MM and DTX-SFM2 SM fibre modules
<b>DTX-1800-MSO</b>	DTX-1800-MS with DTX QUAD OTDR module. Includes fibreinspector mini. NFC-kit-case, launch fibre and test reference cables.
<b>DTX-1800-MS</b>	DTX-1800 with DTX-MFM2 MM and DTX-SFM2 SM fibre modules

Part No:	Description:
<b>DTX-1800-MO</b>	DTX-1800 with DTX-MFM2 MM fibre modules and DTX-OTDR-QMOD MM-SM OTDR module
<b>DTX-1800-O</b>	DTX-1800 with DTX-OTDR-QMOD MM and SM OTDR module
<b>DTX-1200-M</b>	DTX-1200 with DTX-MFM2 MM fibre modules
<b>DTX-1200-V</b>	DTX-1200 with DTX-GFM2 gigabit multimode modules
<b>DTX-1800-V</b>	DTX-1800 with DTX-GFM2 gigabit multimode modules

DTX modules add further test capability to the standard copper analyser. Modules for multimode and singlemode Loss/Length measurements, OTDR for finding faults on fibre installations and a module which allows basic network connectivity tests to be run.



Part No:	Description:
<b>DTX-MFM2</b>	DTX multimode fibre modules
<b>DTX-SFM2</b>	DTX singlemode fibre modules
<b>DTX-GFM2</b>	DTX gigabit multimode fibre modules
<b>DTX-OTDR-QMOD</b>	DTX compact otdr module for multimode and singlemode 850-1300-1310-1550nm
<b>DTX-FTK</b>	DTX fibre test kit includes DTX-FOM fibre optic meter, simplifibre 850 nm and 1300 nm led optical source with carrying case
<b>DTX-NSM</b>	Fluke DTX network service module for network connectivity tests
<b>DTX-OTDR/LL-KIT</b>	Sets of DTX-MFM2 multimode and DTX-SFM2 singlemode fibre (loss/length) modules and DTX compact OTDR module, launch fibres, accessories
<b>DTX-OTDR-KIT</b>	DTX 1800 QUAD OTDR kit

## ► DTX-CABLE ANALYSER ACCESSORIES



**DTX-10GKIT**



**DTX-COAX**



**DTX-TERA**

Part No:	Description:
<b>LINKWARE-STATS</b>	Linkware software
<p>This item is an optional software product that provides a graphical report summarizing project test results stored in LinkWare files. The report includes summaries and statistics by categories such as test limit, site, individual measurement and operator.</p>	

Part No:	Description:
<b>DTX-PLA002PRP</b>	DTX Cat6a permanent link adaptor plug replacement parts
<b>DTX-PLA002</b>	DTX Cat6a permanent link adaptor
<b>DTX-10GKIT</b>	DTX-1800 alien crosstalk analyzer kit includes permanent link and channel adaptors
<b>DSP-PM06</b>	Personality module for DTX-PLA001 set of two
<b>DTX-TERA</b>	DTX CLASS F TERA connector test kit contains permanent link and channel adaptors
<b>DTX-PLA002S</b>	DTX Cat6a permanent link adaptor set of two
<b>DTX-PLA011</b>	DTX CLASS F TERA connector permanent link adaptor
<b>DTX-PLCAL</b>	DTX permanent link calibration module
<b>DTX-PLA001</b>	Universal permanent link adaptor for DTX no personality module
<b>DTX-CHA003</b>	Coax cable single test adaptor
<b>DTX-CHA002S</b>	Cat6a channel adaptors set of two
<b>DTX-COAX</b>	Coax cable test adaptor set of two
<b>DTX-LION</b>	Lithium ion battery for the DTX cable analyzer
<b>DTX-CHA002</b>	Cat6a single channel adaptor
<b>DTX-ACUN</b>	Switching power supply may be used to charge the batteries of the DTX cable analyzer
<b>DTX-AXKIT</b>	DTX alien crosstalk test kit (no adaptors)
<b>DTX-AXTERM</b>	Alien crosstalk link terminators - set of 2
<b>DTX-CASE</b>	Standard carrying case - DTX series
<b>DTX-CHA011</b>	One channel adapter for use with the DTX-1800 cable analyzer to test class F channels using the tera connector
<b>DTX-CHA012</b>	One GG45 channel adapter
<b>DTX-CHA012S</b>	Set of 2 GG45 channel adapters
<b>DTX-CHA021S</b>	DTX M12 4-position channel adapter - set of 2
<b>DTX-FBRCSE</b>	Fibre module accessory case
<b>DTX-FIBRE-CASE</b>	DTX OTDR kit carrying case
<b>DTX-HCSE</b>	Hard carrying case, model pelican® 1550 case with custom foam insert
<b>DTX-PC5ES</b>	DTX-PC5ES, set of Cat5e adapters with shielded Cat5e patchcord jacks installed
<b>DTX-PC6S</b>	DTX-PC6S, set of Cat6 adapters with shielded Cat6 patchcord jacks installed
<b>DTX-PC6AS</b>	DTX-PC6AS, set of Cat6a adapters with shielded Cat6a patchcord jacks installed
<b>DTX-PCTAC6AKS</b>	Set of two shielded Cat6a replacement patchcord jacks
<b>DTX-PCTAC6KS</b>	Set of two shielded Cat6 replacement patchcord jacks
<b>DTX-PCTAC5EKS</b>	Set of two shielded Cat5e replacement patchcord jacks
<b>DTX-PLA012</b>	GG45 permanent link adaptor
<b>DTX-GG45-KIT</b>	GG45 adapter kit



► CABLE IQ



CableIQ is the ideal tester for the installation and maintenance technician. It has storage capabilities and fault finding functions and is capable of testing twisted pair, coax and audio cables. CableIQ is the first cabling bandwidth tester for network technicians. It gives even the most novice tech the vision to see what speeds existing cabling can support, quickly isolate cabling from network problems, and discover what is at the far end of any cable. That means network techs can close trouble tickets faster, reduce on-call time, and save money by better utilizing their existing infrastructure.

**Features:**

- Qualifies - Sees if your existing cabling has the bandwidth to support voice, 10/100, VoIP or Gigabit Ethernet.
- Troubleshoots - shows why existing cabling cannot support the network's bandwidth requirement (e.g. crosstalk at 11 metres).
- Discovers - detects what's at the end of any cable and displays device configuration (speed/duplex/pairing).
- Identifies unused switch ports that can be reallocated.
- Graphically maps wiring configuration and shows distance to faults with Intelligent Wiremap.
- Tests all copper cabling media: twisted-pair, coax, and audio cabling.

Part No:	Description:
CIQ-100	CableIQ Qualification Tester (with remote adapter and soft carrying case)

► CABLE IQ KITS



Ideal kits for cabling technicians to fault find copper cabling networks. Find faults in cables with the CIQ and then check network connectivity with either Linkrunner or Nettool.

Part No:	Description:
CIQ-FTKSFP	Copper/Fibre Technicians Kit consisting of CIQ-KIT and FTK1000
CIQ-GSV	CableIQ Gigabit Service Kit: CableIQ Advanced IT Kit and LinkRunner-Pro
CIQ-KIT	CableIQ Advanced IT Kit: CableIQ mainframe, six Remote Identifiers, Intellitone Probe 200, various accessories, hard carrying case
CIQ-SVC	CableIQ-Service Kit: CableIQ Advanced IT Kit and LinkRunner-Network-Multimeter
CIQ-VOIP	CableIQ VoIP Enterprise Service Kit: CableIQ Advanced IT Kit and NetTool Series 2 NTS2-VOIP



## ► CABLE IQ ACCESSORIES



A wide range of accessories are available for the CIQ to aid cable fault finding. From additional coax adapters to remote office identifiers, these help to enhance the value of your investment.

Part No:	Description:
<b>CIQ-WM</b>	Replacement for CableIQ Wiremap Adapter
<b>CIQ-RJA</b>	For attaching Remote ID's to hard-to-reach RJ45 and RJ11 jacks
<b>CIQ-SPKR</b>	Expands CableIQ tested interfaces to include speaker wire
<b>CIQ-CIT</b>	FNET hard carry case featured in the CableIQ Resi Accessory Kit; room for CableIQ, IntelliTone Probe, 8 Remote ID's, and extra room for various adapters and patch cables
<b>CIQ-COAX</b>	Expands CableIQ tested interfaces to include Coax F, BNC, and RCA connectors
<b>CIQ-IDK24</b>	Remote Identifiers used for easily locating and tagging cabling in the enterprise or residential environment
<b>CIQ-IDK57</b>	Remote Identifiers used for easily locating and tagging cabling in the enterprise or residential environment

## ► INTELLITONE



The Fluke IntelliTone Ends cable location confusion, it decisively rejects noise and false signals, it locates cables on active networks and even when terminated at a switch, isolates cable and wiring within a bundle, despite cable bleed and confirms cable location, verifies continuity, and detects faults (opens, shorts, and reversed pairs) in one step.

- Isolates individual wire pairs precisely by changing tone when shorted.
- Effectively traces and locates voice, audio, and video cabling.

### Product Capabilities

Get advanced SuperVision for locating cables more effectively at patch panels, switches, termination blocks, or hidden within bundles. Our new IntelliTone Pro Toner and Probe Kits find the cables others can't.

The IntelliTone™ Pro Toner and Probe Series from Fluke Networks is the first toner and probe to offer digital and analog signaling all in one tool. That means it's equipped with the most powerful cable location technologies for any work environment. Use digital mode to trace and locate data cabling safely and effectively on active networks. Use analogue mode to isolate individual wire pairs, and trace voice, audio, and video cabling.

The IntelliTone™ Pro Toner and Probe Series from Fluke Networks gives you superior vision for locating cables hidden in floors, ceilings, walls, and in bundles. Its breakthrough digital technology makes it the first tool to tone and trace safely and effectively on active networks.

Part No:	Description:
<b>MT-8200-50A</b>	IntelliTone Pro 100 Toner and Probe Kit
<b>MT-8200-51A</b>	IntelliTone Pro 100 Toner
<b>MT-8200-53A</b>	IntelliTone Pro 100 Probe
<b>MT-8200-60A</b>	IntelliTone Pro 200 Toner and Probe Kit
<b>MT-8200-61A</b>	IntelliTone Pro 200 Toner
<b>MT-8200-63A</b>	IntelliTone Pro 200 Probe



Can't find what you're looking for? Then contact us...



## ► MICROSCANNER2



The MicroScanner2 Cable Verifier presents a revolutionary change in voice, data, and video cable testing. It starts by taking results from what was four different test modes and displaying them all at once – graphical wiremap, pair lengths, distance to fault, cable ID, and far end device. What's more, its integrated RJ11, RJ45, and coax test ports support virtually any type of low-voltage cable testing with no need for awkward adapters. The end result is reduced test time and technician error. That makes high-quality installations more efficient than ever.

## ► MICROSCANNER2 KITS



Today's communications technicians have a lot more problems to deal with than just the cabling. They have to rule out a whole host of potential cable and service issues before determining the cause of a connection problem. Is there telephone voltage? What's the polarity? Is there an Ethernet switch at the far end? Is PoE available? MicroScanner2 acknowledges this, giving technicians high power vision to verify today's most common voice, data, and video services. That means faster, more comprehensive troubleshooting.

### Features:

- Revolutionary Interface – graphical wiremap, length, cable ID, and distance to fault displayed on one screen.
- Multimedia Support – tests all common media types including RJ11, RJ45, Coax, with no need for adapters.
- IntelliTone Toning – locates virtually any cable or wire pair with IntelliTone digital and analogue toning.
- VDV Service Detection – verifies today's media services, including 10/100/1000 Ethernet, POTS, and PoE.
- Rugged Housing – integrated rubber holster enhances grip and makes it durable enough for the toughest jobs.
- Oversized Display – large, backlit LCD makes results crystal clear whether in bright sunshine or in a dark closet.

Part No:	Description:
<b>MS2-100</b>	MicroScanner2 Cable Verifier. Model includes: MicroScanner2, Main Wiremap Adapter, (2) AA Alkaline Batteries, Printed Multi-language Getting Started Guide

Complete kits for first level technicians.

Part No:	Description:
<b>MS2-FTK</b>	Copper/Fibre Basic Technicians Kit (MS2-100 and FTK-KIT)
<b>MS2-TTK</b>	MicroScanner2 Termination Test Kit, includes MicroScanner2 Cable Verifier, IntelliTone Pro 200 Probe, IS60 Pro-Tool Kit, and a deluxe carrying case.
<b>MS2-KIT</b>	MicroScanner2 Professional Kit. Model includes: MicroScanner2, Main Wiremap Adapter, Remote Identifiers #2-7, IntelliTone Pro 200 Probe, (2) AA Alkaline Batteries, Printed Multi-language Getting Started Guide, Various Patchcords and Adapters
<b>MS2-CPK</b>	MicroScanner2 Professional Kit Carry Case
<b>MS2-IDK27</b>	MicroScanner2 Remote Identifier KIT 2-7
<b>MS2-POUCH</b>	MicroScanner2 Pouch
<b>MS2-WM</b>	MicroScanner2 Wiremap

## ► FIBRE CERTIFICATION



Part No:	Description:
<b>DTX-CERTIFIBER-S</b>	Singlemode certifier with SM SC-SC duplex test reference leads and case
<b>DTX-CERTIFIBER-MS</b>	Multimode and singlemode certifier with 50um and SM SC-SC duplex test reference leads and case
<b>DTX-CERTIFIBER-M</b>	Multimode certifier with 50um SC-SC duplex test reference leads and case

The DTX-CLT CertiFiber® Optical Loss Test Set allows you to accurately certify two fibres concurrently over two wavelengths according to custom requirements or established industry specifications. Quickly and efficiently conduct troubleshooting with a conveniently integrated Visual Fault Locator

### Fast and easy fibre certification

The DTX-CertiFiber® Optical Loss Test Set certifies fibre according to industry standards by quickly providing four measurements on two fibres and returning a PASS/FAIL result – without having to take the time to swap the main and remote units as you would have to with traditional test sets. Such speed and efficiency in testing can easily save you more than 100 hours per year! Also, unlike most competing OLTS, the DTX-CLT CertiFiber actually measures fibre length for you, ensuring that you do not have to rely on often undependable sheath labeling or pacing methods.

### Integrated troubleshooting capability

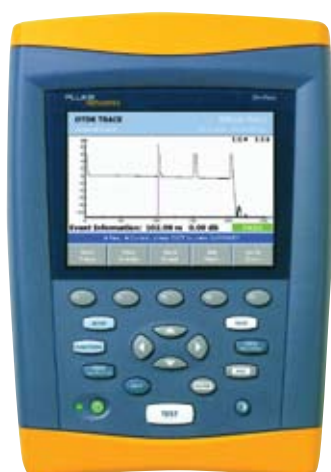
The DTX-CLT CertiFiber's on-board VFL helps you to quickly troubleshoot basic causes of failures such as breaks and macrobends. The bright laser VFL can easily highlight near-end fibre faults in addition to verifying polarity and continuity.

### Professional documentation reporting

Test reports are often required as proof of quality. Use LinkWare to upload and manage test results from Fluke Networks' family of industry-leading copper and fibre cabling testers including the DTX CableAnalyzer, OptiFiber® OTDR, and SimpliFiber Pro® Optical Power Meter and Fibre Test Kits.

# OTDR TESTING

## ► OPTIFIBER



Part No:	Description:
<b>OF-500</b>	Optifiber mainframe and battery
<b>OF-500-S</b>	Optifiber singlemode OTDR
<b>OF-500-M</b>	Optifiber multimode OTDR
<b>OF-500-MS</b>	Optifiber multimode-singlemode OTDR
<b>DTX-QUAD-OTDR-INTL</b>	DTX QUAD MM and SM OTDR

The use of fibre in premises networks is continually growing – and so are the requirements for testing and certifying it. More and more, LAN cable installers will win or lose business based on their ability to provide a whole new level of required certification, documentation and diagnostics. And no solution hands you a more complete, competitive edge than the OptiFiber Certifying OTDR from Fluke Networks. It's the first tool specifically designed to keep LAN installers and network owners on top of the latest requirements for testing and certifying fibre.

- Get a complete picture of the quality of your LAN. OptiFiber brings together all the critical information you need – on screen, on your PC and on printed reports that you can give to your customers.
- Take the complexity out of OTDR testing with automated trace and event analysis and simple link diagramming that anyone can understand.
- Boost productivity with automated insertion loss testing and an intuitive interface that's fast and easy-to-use.
- Troubleshoot connections with a 250X/400X fibre endface microscope.
- Measure optical power directly to verify source and link performance.
- Streamline data management and create impressive reports that bring together all key test data – quickly, easily and completely.
- Work comfortably in tight spaces with one of the smallest, lightest micro OTDRs available.



Can't find what you're looking for? Then contact us...

## ► OPTIFIBER KITS



The most comprehensive test packages for fibre installations. Combine fault finding and loss length measurements, even adding copper testing if required.

Part No:	Description:
<b>OF-500-M10</b>	OptiFiber Datacenter-Ready Certifying OTDR (MM) Includes: Mainframe (OF-500), battery, MM OTDR/OPM/LL module (OFTM-5612B), 62.5µm and 50µm launch fibers, CDs with LinkWare and manuals, user guide, 32 MB MMC, USB cable, AC adapter, carrying strap, soft protective carrying case, 200x/400x inspection camera, MMC reader; all accessories for testing SC and LC
<b>OF-500-MS35</b>	OptiFiber Enterprise-Ready Certifying OTDR (MM/SM). Includes: Mainframe (OF-500), battery, SM module (OFTM-5730), protective case with carrying strap, USB cable, AC adapter, LinkWare CDs and manuals, user guide, calibration certificate
<b>OF-500-MS45</b>	OptiFiber Premium Enterprise-Ready Certifying OTDR (MM/SM). Includes: Contents and capabilities of OF-500-MS35, plus SmartRemote unit components (DTX-1800/RU, DTX-MFM2/SU, DTX-SFM2/SU, carry strap, user guide, Mini-B USB-cable, second AC adapter, MMC reader)
<b>OF-500-MSDTX</b>	OptiFiber Enterprise-Ready Certifying OTDR + DTX CableAnalyzer (MM/SM) Includes: Contents and capabilities of OF-500-MS35, plus DTX-1800 INTL, DTX-MFM2/SU and DTX-SFM2/SU modules, 62.5µm, 50µm, and SM premium test reference cords with patented damage-resistant end-faces

## ► OPTIFIBER MODULES



OptiFiber test modules combine the right capabilities for your fibre testing needs. Choose from multimode or singlemode OTDR modules and add a power meter (PM) and far end source for power and loss measurements or bi-directional Loss/Length capability.

Part No:	Description:
<b>OFTM-5732</b>	Singlemode OTDR module with power meter loss length and VFL
<b>OFTM-5731</b>	Singlemode OTDR module with power meter VFL
<b>OFTM-5730</b>	Singlemode OTDR module with VFL
<b>OFTM-5612B</b>	Multimode OTDR module with power meter and loss length
<b>OFTM-5611B</b>	Multimode OTDR module with power meter
<b>OFTM-5610B</b>	Multimode OTDR module
<b>OFSR-SFM</b>	Single singlemode module for smart remote
<b>OFSR-MMREM</b>	Smart remote with multimode module
<b>OFSR-MFM</b>	Single multimode module for smart remote



# FIBRE FAULT FINDING

## ► FIBER QUICKMAP



The Fluke Networks Fiber QuickMap is an enterprise fibre troubleshooter that quickly and efficiently locates connections and breaks in multimode fibre. By instantly providing distances to failures such as high loss and high reflectance incidents, Fiber QuickMap is the must-have troubleshooter for any technician who works with fibre.

Other troubleshooting solutions in today's datacentres are too inefficient and take up too much time. Lasers are simple, but the repetitive process of shining it down a link and checking the far end is imprecise, tiresome and time-consuming. On the other end of the spectrum, OTDRs work well as troubleshooters, but their advanced analysis and trace capabilities make them best used for certifying and documenting cable installation quality. Today, network technicians need a first-line diagnostic tool to help them fix their fibre cabling problems. Fiber QuickMap's one-button ease-of-use, speed and detailed insight into fibre connectivity make it the technician's troubleshooter of choice.

Part No:	Description:
<b>FQM-MAIN</b>	FQM-MAIN, Fiber Quickmap main instrument only
<b>FQM-KIT</b>	FQM-KIT, Fiber QuickMap, Launch Cords and Carrying Case

## ► FIBER QUICKMAP KITS



Combining VFL, inspection scope and power meter make the Fibre Quickmap kits powerful fault finding kits.

Part No:	Description:
<b>FTS900</b>	FTS1000, Fibre troubleshooting Kit including FQM-KIT, VisiFault VFL and Carrying Case
<b>FTS1000</b>	FTS1000, Fibre troubleshooting Kit including FQM-KIT, VisiFault VFL, SimpliFiber Pro Power Meter and Multimode Source Carrying Case
<b>FTS1100/E</b>	FTS1000, Fibre troubleshooting Kit including FQM-KIT, VisiFault VFL, FT500 (with European Charger), SimpliFiber Pro Power Meter and Multimode Source and Carrying Case

## ► FIBER ONE SHOT



Fiber OneShot is a pocket-sized optical test set designed to take the complexity out of single-mode fibre to increase productivity and decrease training time. The Fiber OneShot allows testing anywhere in the network (central office, node, hub, drop or optical network terminal (ONT)) and is fast, affordable, testing.

Fiber OneShot's one-button-test capability will quickly and accurately verify if a fibre is active and find the distance to a break or end, dirty end face or reflective event – going from zero to 9,999 feet (note\* 0 - 6,000 metres displayed in metric mode) with no dead zone. This portable FTx tester is designed to be lightweight and accurate.

Built to last, the Fiber OneShot incorporates an energy-absorbing holster over an impact-resistant case to withstand drops, impacts and the tough outside plant environment, ensuring years of trouble-free operation.

### Testing benefits that increase your productivity

- Measure the length of your fibre quickly and accurately.
- New CheckActive™ feature alerts you if an optical signal is on the fibre.
- Instant-on – no boot/load time.
- Test fast – expedite your fibre testing with one button in a few seconds.
- No dead zone – locate fibre faults at one metre.

Part No:	Description:
<b>FIBR-1-SHOT</b>	Fiber One Shot
<b>FIBR-1-SHOTPRO</b>	Fiber One Shot Pro



Can't find what you're looking for? Then contact us...



## ► FIBER ONE SHOT



Combining test leads, power meter and visual fault locator with the Fibre One Shot make a comprehensive fault finding package.

Part No:	Description:
<b>FIBR-AC-CH</b>	FIBR-AC-CH, case, HOLSTR-FIBR oneshot
<b>FIBR-AC-UUPC</b>	FIBR-AC-UUPC, 1-METR UPC-UPC launch CRD
<b>FIBR-AC-UAPC</b>	FIBR-AC-UAPC, 1-METR UPC-APC launch CRD

Part No:	Description:
<b>FIBR-1-KIT-PM</b>	Fiber One Shot-SC-kit + sfpowermeter
<b>FIBR-1-KIT-VF</b>	Fiber One Shot-SC-kit + visifault
<b>FIBR-1-KIT</b>	Fiber One Shot-SC-kit
<b>FIBR-1-KIT-VFPM</b>	Fiber One Shot-SC-kit+ visifault + sfpowermeter
<b>FIBR-1-KITPRO</b>	Fiber One Shot Pro-SC-kit
<b>FIBR-1-KITPRO-PM</b>	Fiber One Shott Pro-SC-kit + sfpowrmetr
<b>FIBR-1-KITPRO-VF</b>	Fiber One Shot Pro-SC-kit + visiflt
<b>FIBR-1-KITPRO-VFPM</b>	Fiber One Shot Pro-SC-kit + visiflt + sfpowrmetr

## ► VISIFAULT



Bright laser-powered VisiFault Visual Fault Locator (VFL) traces fibres, verifies continuity and polarity, and aids in fault location. Compatible with 2.5mm and 1.25mm connectors. Rugged design, long battery life, lanyard attachment and a carrying case.

Part No:	Description:
<b>VISIFAULT</b>	Bright laser-powered VisiFault Visual Fault Locator (VFL)

## ► HOBBS FIBRE CHECKER PRO



The FC-2005 Fibre Checker Pro is used for checking the defects of a fibre cable. It sends a visible 650nm wavelength red laser light though a fibre optic cable, the breaks or faults in the fibre will refract the light, creating a bright glow around the faulty area.

### Features:

- Wavelength: 650nm.
- Range: visibility up to 3km.
- Easy to check fibre faults with visual red laser light.
- Tests for both singlemode and multimode cables with standard 2.5mm fibre optic connectors to 1.25mm adapter.
- Highly effective power circuits allow stable laser power.
- Operates in both CW (Continuous wave) and pulse mode.
- Dust-proof design- keeps fibre connectors clean.
- Two AAA-size alkaline batteries provide 15 hours of stable continuous operation.
- LED indicator for Power, Battery low, and CW / Pulse indicators.

Part No:	Description:
<b>OVLP-650</b>	650nm optical visual light pen (2.5mm +1.25mm adaptors)

# FIBRE LOSS TEST KITS

## ► SIMPLIFIBER® PRO



Rugged dual wavelength LED multimode and Laser singlemode sources with SC adapter, power meter has six calibrated wavelengths and result storage.

Part No:	Description:
<b>SFSINGLEMODESOURCE</b>	SimpliFiber® Pro singlemode source 1310-1550nm
<b>SFSINGLEMODE2</b>	1490 and 1625nm dual wavelength singlemode light source
<b>SFPOWERMETER</b>	SimpliFiber® Pro optical power meter
<b>SFMULTIMODESOURCE</b>	SimpliFiber® Pro multimode source 850-1300nm

## ► SIMPLIFIBER® PRO KITS



SimpliFiber® Pro Optical Power Meter and Fibre Test Kits include all the tools necessary to verify and troubleshoot optical fibre cabling systems, measure loss and power levels and inspect and clean connector end-faces. Replacing the popular SimpliFiber® series, this next generation optical loss test kit boasts industry-leading functions such as dual-wavelength testing and automatic-wavelength detection, in addition to unique features such as CheckActive™, FindFiber™, and Min/Max. With such advanced, yet easy-to-use, capabilities that reduce test times, SimpliFiber® Pro is simply the best first-line fibre test kit on the market.

Part No:	Description:
<b>FTK2100</b>	Includes SimpliFiber® Pro optical power meter, two singlemode sources (1310/1550 and 1490/1625 nm), carrying case, and SC power-meter adapter.
<b>FTK1450</b>	Includes SimpliFiber® Pro optical power meter, 850/1300 multimode source, 1310/1550 singlemode source, VisiFault VFL, FT500 FiberInspector, 2 FindFiber Remote ID sources, and carrying case; SC, ST, and LC power meter adapters, NFC-KIT-BOX cleaning kit.
<b>FTK1350</b>	Includes SimpliFiber® Pro optical power meter, 850/1300 multimode source, VisiFault VFL, FT500 FiberInspector, FindFiber Remote ID source, and carrying case; SC, ST, and LC power meter adapters.
<b>FTK1300</b>	Includes SimpliFiber® Pro optical power meter, 850/1300 multimode source, VisiFault VFL, FT120 FiberViewer, FindFiber Remote ID source, and carrying case; SC, ST, and LC power meter adapters.
<b>FTK1000</b>	Includes SimpliFiber Pro optical power meter, 850/1300 multimode source, carrying case, and SC power-meter adapter.
<b>FTK2000</b>	Includes SimpliFiber® Pro optical power meter, 1310/1550 singlemode source, carrying case, and SC power-meter adapter.



Can't find what you're looking for? Then contact us...

## ► FLUKE INSPECTION SCOPES



The Fluke FT120 fibre viewer has a x200 magnification and is suitable for inspecting connectors with 2.5mm ferrules. For connectors with 1.25mm ferrules, an adapter is available. It has an on board filter for eye safety.

Part No:	Description:
<b>FT120</b>	Fluke inspection microscope x200
<b>FT140</b>	Fluke inspection microscope x 400

## ► FIBER INSPECTION PRO SCOPES



The FT600 FiberInspector Pro video microscope is a hand-held, dual-magnification probe and display used to inspect the ends of fibre optic connectors through bulkhead adapters. The video microscope lets you view fibre end faces that cannot be accessed by traditional fibre microscopes.

The video microscope comes with the following:

- FT650 Fiber Probe
- FT630 Fiber Display
- AC adapter/battery charger
- Probe adapter tips (ST, SC, FC, and universal 2.5 mm patchcord tip)
- Instruction sheet
- Hard carrying case

Part No:	Description:
<b>FT600</b>	FT600 fiberinspector pro inspection scope

### FT500

- 200x magnification probe enables inspection of both multimode and singlemode end-faces inside ports and on patchcords
- Miniature display boasts an exceptionally sharp 1.8" screen
- Grip trigger activation extends battery life
- Various probe adapter tips allow for inspection through many different connector port types

Dirt, dust and other contaminants are the enemy of high-speed data transmission over optical fibre. Today's network applications require more bandwidth, making loss budgets tighter than ever. It is critical that all optical connections are clean and free of contaminants to ensure application success.

The Fluke Networks FiberInspector Mini Video Microscope puts the solution to contaminated end-faces in the palm of your hand. This portable video microscope works ten times faster than traditional scopes. Simply insert the probe and inspect installed fibre connectors through the bulkhead adapters without accessing the backside of the patch panels. Using a video microscope also completely ensures that no harmful laser light ever reaches your eyes.

Its miniature size makes the FiberInspector Mini extremely portable and convenient. The device displays exceptionally sharp images on its 1.8" screen. Extend battery life in the grip trigger mode, when the device only shows images when squeezing the sides of the display. With a range of standard and accessory probe tips, end-faces can be inspected when using many different connector types, including LC connectors.

Part No:	Description:
<b>FT525</b>	FT500 fiberinspector mini video inspection scope with cleaning kit in case
<b>FT500-UK</b>	FT500 UK fibreinspector mini video microscope includes probe and display AC adaptor-battery charger probe adaptor tips SC ST and 2.5mm P-C tip and soft carry case

## ► ACCESSORIES



Part No:	Description:
<b>FT525-CASE</b>	Carry case for FT500 and cleaning accessories
<b>NFM115</b>	SC, ST, 2.5mm, FC, LC, 1.25mm accessory tip set for FT500
<b>NFM110</b>	LC, FC and 1.25mm accessory tip set for FT500

## ► TEST REFERENCE CORDS AND LAUNCH LEADS



### Launch Fibres

OTDR'S require the use of long launch fibres at the beginning and/or end of a fibre link, in order to measure the loss and reflectance of connectors, at the ends of the fibre being tested. Fluke Networks launch fibres come in a small convenient protective case and available in common fibre types and connections.

### Duplex/Simplex fibre test reference cord for Optifiber Singlemode and Multimode Modules

Fluke Networks test reference cords are specially configured for accurate and efficient bi-directional testing. Connector end faces are hardened to increase durability and ensure good reference measurements. Test reference cords come in sets of two and include mandrels as appropriate, available in common fibre types and connections.



## HOW TO CREATE OUR TEST REFERENCE/LAUNCH LEAD PART NUMBERS



Populate this field with the type of fibre you require:

1 = 62.5/125  
2 = 50/125  
3 = 9/125

Populate this field with the type reference of lead you require:

DPLX = reference cord set of 2  
SMPLX = Simplex test reference cords  
LAUNCH = Launch fibre test reference cords

Populate this field with the required connection type:

ST  
LC  
SC

Eg: NFK1-DPLX-LC = DUPLEX MM 62.5UM TEST REFERENCE LEADS FOR LC ADAPTOR - SET OF 2



Can't find what you're looking for? Then contact us...



## ► NETTOOL SERIES 2 PRO



Troubleshooting network connectivity problems can be a daunting and time-consuming task. Without the right tool, network techs can spend hours of unnecessary time with trial and error guesswork trying to isolate the problem.

Fluke Networks has put an end to the guessing game with the NetTool Series II Inline Network Tester. NetTool combines powerful NetProve diagnostics, inline Gigabit vision, VoIP Phone PC configuration testing in one palm-sized tool, so you'll have

everything you need to quickly resolve even the toughest connectivity problem. Plus, with the monitoring and authentication option, you'll have the power to identify port-based security threats and maintain user connectivity in 802.1x environments.

- NetProve™ diagnostics - isolate device and application connectivity issues in seconds
- Inline Gigabit vision - quickly troubleshoot network problems with powerful inline vision into 10/100/Gig traffic between switches, PCs, IP phones and other devices
- Monitoring and authentication - identify spyware, malware, and viruses with port monitoring; troubleshoot authentication issues with 802.1x log
- VoIP troubleshooting - connect inline for visibility into VoIP calls to quickly diagnose IP phone boot-up and call control problems and to measure key call quality metrics
- PoE Measurements - verify readiness of PoE systems and troubleshoot PoE device problems
- Spot available network resources - See MAC and IP addresses, subnet and services offered by active servers, routers and printers
- IntelliTone digital signaling - quickly and safely locate cables on active network

Part No:	Description:
<b>NTS2-PRO</b>	NetTool Series II Pro VoIP Includes: 10/100/1000Mbps inline analysis, NetProve diagnostics, IntelliTone toning and NetTool Connect PC software
<b>NTS2-NSKIT</b>	NetTool Series II Network Service Kit Includes: NetTool Series II tester with 10/100/1000Mbps inline, VoIP option, Monitoring and Authentication option, NetProve diagnostics, IntelliTone toning, IntelliTone Pro 200 Probe, NetTool Connect PC software, WireView Wiremappers #1-6
<b>NTS2-VOIP</b>	NetTool Series II Pro VoIP Includes: 10/100/1000Mbps inline analysis, VoIP option, NetProve diagnostics, IntelliTone toning and NetTool Connect PC software



## ► LINK RUNNER



An essential, personal tool to quickly verify network connectivity and availability.

As networks run faster and become more complex, infrastructure cabling and devices must operate to precise levels in a tighter performance window. As a result, nearly 80% of network problems stem from simple wiring and connection problems.

Front-line technicians are the first line of defense against problems in the physical and link layers of the network. LinkRunner improves your troubleshooting and escalation accuracy by helping you to quickly identify if a problem is the network or the PC NIC.

- Link – Determine whether the drop is active, identify its speed, duplex capabilities and service type. 10/100 Mbps
- Ping – Verify connectivity to key devices.
- Cable verification – Multiple tests help you quickly determine if cable is the problem.
- Cable identification – Document unmarked segments, saving you hours of troubleshooting time.
- Improved efficiency – Speed up the escalation process by identifying physical or link layer problems.

Part No:	Description:
<b>LINKRUNNER</b>	Quickly verify network connectivity and availability. LinkRunner checks for problems in both the physical and link layer and helps to increase problem escalation accuracy by determining if the problem is in the network or the PC NIC
<b>LINKRUNNER-KIT</b>	LinkRunner Extended Test Kit Includes: LinkRunner, Cable ID Kit (#1-8), Wiremap Adapter, RJ45 Coupler, MicroProbe Tone Receiver, Clip Set, NiMH Battery Pack, NiMH Battery Charger, Custom Carrying Case and PC Inspector

## ► LINK RUNNER PRO



Today's connectivity problems are more complex than ever. Users demand Gigabit connectivity. IT departments enforce stronger standards like 802.1X. And technologies like VoIP and WLAN have given rise to a greater reliance on PoE for power. The LinkRunner Pro and Duo recognise this and empower technicians to address today's challenges with powerful new features and reporting capabilities. Following the tradition of the original LinkRunner, they are designed for simplicity and ease-of-use to ensure rapid deployment and concise answers.

- Link at 10/100/Gig – identify device capabilities and confirm actual connected speed/duplex status on copper or fibre (Duo only) links
- Ping key devices – measure response statistics of DHCP, default router, DNS server and other key devices or URLs

- Verify 802.1X settings – authenticate on 802.1X secured networks; enter EAP type, user name, certificates and password. (LinkRunner Duo supports up to 2k certificates. LinkRunner Pro supports up to 1k certificates.)
- Detect PoE service – verify availability, voltage level and pairs of Power over Ethernet per IEEE 802.3af specifications
- Identify switch port – identify nearest switch address, slot and port with Cisco, Extreme and IEEE Link Layer Discovery Protocols
- Test cable wiremap – test wiremap and length; detect miswires, shorts, split pairs or opens; measure distance to faults with TDR
- Locate and ID cable – use IntelliTone digital toning, hub blink feature, or optional cable IDs to locate cables at patch panels or wall jacks
- Document test results – save link, ping, PoE, security and cable test results in unit and upload to PC with USB cable

Part No:	Description:
<b>LRPRO-1000</b>	LinkRunner Pro Network Multimeter
<b>LRPRO-KIT</b>	LinkRunner Pro Extended Test Kit Includes: LinkRunner Pro, IntelliTone Pro 200 Probe, WireView Cable IDs #1-6, CLIP-SET RJ45 to 8 alligator clip bare wire adapter, LinkRunner Connect software CD, test accessory soft pouch, USB cable, LinkRunner Pro Getting Setting Guide
<b>LRPRO-REFLECT</b>	LinkRunner Pro w/Reflector Item is a LinkRunner Pro unit with the Reflector option enabled.
<b>LRDUO</b>	LinkRunner Duo Includes: LinkRunner Duo Network Multimeter, WireView Cable ID #1, RJ45 coupler, LinkRunner Connect software, CD, USB cable, Getting Started Guide, four AA alkaline batteries.
<b>LRDUO-FTK</b>	LinkRunner Duo-FTK Copper/Fiber Network Troubleshooting Kit (LRDUO and FTK1300)



➤ GOLD SUPPORT



Gold Support is Fluke Networks annual maintenance package. Membership ensures you are never without an up-to-date, calibrated tester in full working order.

**Gold Support offers you all this great value for your money**

➤ **REPAIR**

Should your testers need repair or suffer accidental damage, under Gold Support, you are entitled to unlimited, no charge repair services including labour, parts and shipping.

➤ **LOAN UNIT IN THE EVENT OF A REPAIR**

Fluke will provide a loan unit via next business day service to keep you up and running while your unit is away, with all shipping costs covered. Simply place your tester in the shipping container the loan unit arrives in, affix the pre-paid return shipping label and ship to Fluke Networks.

➤ **CALIBRATION**

One annual calibration of your unit at a time of your choosing during the year.

➤ **ACCESSORIES**

Free replacement of any failed accessory that was included in the box with the main unit at the time of delivery.

For example:

- Battery packs
- Channel adapters
- Serial cables
- Link adapters
- AC chargers
- Personality modules
- Technical support
- Unlimited technical expertise with local language support
- Unlimited access to our on-line Knowledge Base.
- Special Offers members only access to extra discounts on selected test equipment.

Part No:

**GLD-(INSERT TESTER PART CODE EG DTX)**



## ► ZOOM TESTER



The ZOOM II is one of the world's most economical and precise fibre optic power meters, delivering professional performance and a complete feature set for optical loss testing in both multimode and singlemode networks.

The ZOOM II is calibrated at four commonly used industry standard wavelengths (850, 1300, 1310, and 1550), which makes it an ideal choice for both multimode and singlemode testing.

Additionally, the ZOOM II is calibrated at 1490nm, making it an excellent option for measurement of FTTx PON networks.

The ZOOM II can store reference values for all of its calibrated wavelengths and displays optical power as an absolute value in dBm or relative to a user set "zero" reference in dB.

Other standard features include a 4-digit, 0.01dB resolution display, battery status indicator, and a 2.5mm Universal detector port that is compatible with FC, ST, SC, DIN, and any other 2.5mm ferrule connectors!

Part No:	Description:
<b>KIT-Z2-D285XX</b>	Single Wavelength MM lightsource and power meter test kit 850nm only
<b>KIT-Z2-D213XX</b>	Single Wavelength MM lightsource and power meter test kit 1300nm only
<b>KIT-Z2-D2XX</b>	Dual Wavelength MM lightsource and power meter test kit.
<b>KIT-Z2-L2XX</b>	Dual Wavelength SM lightsource and power meter test kit
<b>KIT-Z2-D2XX-L2XX</b>	Quad Wavelength MM and SM lightsource and power meter test kit

Replace **XX** with required connector type **SC** or **ST**

## ► WAVETESTER



The WaveTester is one of the world's most economical and accurate fibre optic link certification power meters, delivering professional performance and a complete feature set for optical loss testing in both multimode and singlemode networks.

Each model of the WaveTester can store reference values for all of its calibrated wavelengths and displays optical power as an absolute value in dBm or relative to a user set "zero" reference in dB. Stored

data points contain this reference information and when data is downloaded into our free OWL Reporter software. The data can be certified using one of many popular cabling standards. OWL Reporter can also print professional-looking certification reports as proof to customers of a job well done. OWL Reporter data can also be saved to hard disk for later retrieval.

Other standard features include a backlit, easy-to-read LCD display and a 2.5mm universal detector port that is compatible with FC, ST, SC, DIN, and any other 2.5 mm ferrule connectors! The WaveTester is protected from shock and droppage by an attractive rugged rubber boot.

Part No:	Description:
<b>KIT-WT-WS-MDSDXX</b>	Quad Wavelength MM and SM light source and power meter test kit with 100 test result storage
<b>KIT-WT-WS-MDXX</b>	Dual Wavelength MM lightsource and power meter test kit with result storage
<b>KIT-WT-WS-MDVXX</b>	Dual Wavelength MM lightsource and power meter test kit with result storage built in VFL
<b>KIT-WT-WS-SDXX</b>	Dual Wavelength SM lightsource and power meter test kit with result storage
<b>KIT-WT-WS-SDVXX</b>	Dual Wavelength SM lightsource and power meter test kit with result storage

Replace **XX** with required connector type **SC** or **ST**





# FLIR THERMAL IMAGING CAMERAS

Networks Centre is proud to distribute FLIR Thermal Imaging Cameras. FLIR have been pioneers in the commercial infrared camera industry and has been supplying thermography and night vision equipment to science, industry, law enforcement and the military for over 50 years. With over 60 offices and the largest installed infrared camera base in the world, FLIR offers its customers unparalleled service, the best post-sale technical applications support available and world-class infrared camera and thermography applications training.

With the dissipation of heat being a major concern in datacentre environments, Networks Centre is now able to offer a selection of products from the market leader to enable installers and end users to accurately monitor 'hot spots' within an installation.

## ► FLIR E-SERIES



E40



E50

With an image quality of up to 320 x 240 pixels, the FLIR E-Series is ideal for predictive maintenance and planned inspection of electrical and mechanical systems to ensure they operate at maximum efficiency and safety with minimal energy consumption.

### Features:

Sharp thermal images and easy-to-read temperature values are presented on the touch screen LCD display.

#### Laserpointer and LED light

Activate the built-in laser pointer and associate the hot spot you see on the LCD with the real target in the field. A LED light assures clear visual images.

#### Wifi

Transfer images wirelessly to a smart phone or tablet PC.

#### Thermal Fusion

Merges visual and infrared images to offer better analysis.

#### Picture-in-Picture (PiP)

With the PiP-function it is easy to locate areas of interest.

#### MeterLink™

FLIR MeterLink technology simplifies the work in electrical or building inspections by making it possible to transfer, via Bluetooth®, the data acquired by an Extech clampmeter or multi function moisture meter and psychrometer into the infrared camera. The MeterLink technology saves time and eliminates the risk of erroneous records or notes.

#### Instant reports

Create instant reports directly in camera. Easy to copy reports to USB.

#### Text and voice annotations

Text comments can be made from a pre-defined list or by using the touch screen. A headset can be connected to make voice annotations.

Part No:	Description:
FLIR-E40	FLIR E40 160 X 120 pixel thermal imaging camera
FLIR-E50	FLIR E50 240 X 180 pixel thermal imaging camera
FLIR-E60	FLIR E50 320 X 240 pixel thermal imaging camera



## ► FLIR i3/i5/i7



FLIR i3/i5/i7 are the smallest, lightest and most affordable thermal imaging camera on the market. They are incredibly easy to use and require no former experience. It really is a matter of "point-shoot-detect" to obtain high-quality thermal images that will immediately give you the thermal information you need.

### Features:

#### Outstanding ease-of-use

The cameras are extremely easy to understand and operate, designed for entry-level users. They are intuitive and come with a full manual.

#### Fully automatic

Produces instant, point-and-shoot JPEG thermal imagery that carries all required temperature data and can be stored internally or externally, sent and analysed.

#### Focus free

The fixed focus free lens makes using the FLIR i5/i7 a snap.

#### Compact and lightweight

FLIR i3/i5/i7 only weigh 340g, and are easy to store in a belt pouch.

#### SD card storage

Stores images with unique ID in radiometric JPEG format, containing all temperature data on a standard miniSD card. USB file transfer to PC.

#### Reporting and analysis software included

FLIR QuickReport software is included and the cameras also are compatible with the more powerful FLIR Reporter.

#### Outstanding measurement/accuracy

High accuracy of  $\pm 2^{\circ}\text{C}$  or  $\pm 2\%$  produces sensitive thermal images for general purpose maintenance analysis. Measures temperatures up to  $+250^{\circ}\text{C}$  and detects temperature differences as small as  $0.10^{\circ}\text{C}$ .

#### Measurement functions

Spotmeter, box with max./min. temperatures, isotherm above/below (depending on model).

Part No:	Description:
<b>FLIR-i3</b>	FLIR i3 thermal imaging camera 60 x 60 resolution
<b>FLIR-i5</b>	FLIR i5 thermal imaging camera 80 x 80 resolution
<b>FLIR-i7</b>	FLIR i7 thermal imaging camera 120 x 120 resolution

## FLIR i3/i5/i7 camera model comparison

FLIR i3	FLIR i5	FLIR i7
Thermal image quality: 60x60 pixels	Thermal image quality: 80x80 pixels	Thermal image quality: 120x120 pixels
Field of View: 12.5°(H) x 12.5°(V)	Field of View: 17°(H) x 17°(V)	Field of View: 25°(H) x 25°(V)
Centre spot	Centre spot	Spotmeter, area with max./min. temperature, isotherm above/below
Thermal sensitivity: 0.15°C	Thermal sensitivity: 0.10°C	Thermal sensitivity: 0.10°C



Can't find what you're looking for? Then contact us...

# SECURITY

LILIN are one of the world's leading providers of IP Video solutions. They are the first company in the World to introduce ONVIF Cameras and other conformant products. With the security market migrating from analogue to IP it's important to partner with a brand that offers support from project conception to completion. LILIN has over 30 years experience and is dedicated to offering our customers the most appropriate IP solutions that are easy to install and operate. Networks Centre has a specialist IP division ready to support the LILIN range and provide you with competent technical support; either over the phone or onsite.

KBC is a prominent leader in the design and manufacturing of fibre optic, wireless and network transmission products. Their range of optical transmission products includes Multimode and Singlemode solutions for: Static and PTZ cameras; industrial data systems, single contact closure and Ethernet media conversions. Their Thrulink device allows a secure transparent virtual path to be established over a public or private network.

➤ Dome Cameras	170
➤ High Speed Dome Cameras	173
➤ Cameras	174
➤ Recorders	179
➤ Video Encoders	182
➤ Fibre Transmission	182
➤ KBC	186






# DOME CAMERAS

## > DAY/NIGHT INTERNAL DOME



The IPD-112 features a day/night CCD which means the camera will switch to monochrome when light levels drop to increase sensitivity and allow the camera to survey in low light conditions. A varifocal lens enables you to adjust the focal length to suit your needs.

### Features:

- > High definition.
- > 3-9mm varifocal lens.
- > IR cut filter.
- > H.264 and JPEG streaming.
- > Internal use only.
- > Audio input.
- > True day/night.
- > PoE (IEEE 802.3af) or 12Vdc.
- > 3 way gimbal.
- > ONVIF compliant.

Part No:	Description:
<b>LI-IPD-112ESX3</b>	HD H.264 Internal mini dome day-night IP video camera varifocal 3-9mm lens, 0.4 LUX, PoE
<b>LI-IPD-552EX4.2P</b>	D1 H.264 Internal mini dome IP video camera varifocal 2.8-12mm LENS CCD PoE

## > HD 1080P VANDAL RESISTANT DOME



### Features:

- > Full HD 2 megapixel CMOS image sensor.
- > True H.264 AVC/MPEG-4 part 10 real-time video compression.
- > H.264 and Motion JPEG multi-profile video streaming.
- > 3D noise reduction (MCTF).
- > 2D WDR function.
- > Digital PTZ supported.
- > Face / Tampering / Motion detection alarm function.
- > High efficiency IR LED, radiant distance up to 21m.
- > External adjustment for zoom and focus of Vari-Focal lens.
- > Day and Night (IR cut removable).
- > ONVIF supported.
- > Dimensions: 130 x 115mm.
- > PoE/12vdc.
- > Sense-up Plus.

Part No:	Description:
<b>LI-IPR-320ESX3.6</b>	Day and Night 2MP HD VR Dome IR IP Camera CMOS Focal Length 3.3 ~ 12 mm





## ➤ HD 720P VANDAL RESISTANT EXTERNAL DOME



One of our most popular cameras, the IPR-31 Series benefits from either 16m or 21m IR illumination resulting in the provision of quality images in total darkness.

Utilising H.264 compression and delivering high frame rates even across 3G networks, the IPR-31 Series is compatible with many third party devices and software applications; including Milestone VMS systems and the GVD HD NVR's.

Supplied with free NVR management software, live video can be viewed on any PC running Internet Explorer. The IPR-31 features universal in-depth configuration menus which are now standardised across the LILIN IP range.

The camera benefits from a 3-way gimbal and dual H.264 and JPEG streaming. A varifocal 3-9mm lens enables the focal length to be adjusted to meet individual requirements.

These cameras can also be remotely viewed on an iPhone, iPad, Blackberry and other Smartphones.

### Features:

- High definition.
- 3-9mm varifocal lens.
- Vandal resistant.
- IP66 rated.
- Up to 16m or 21m IR range.
- True day/night.
- IR cut filter.
- H.264/JPEG dual streaming.
- 3 way gimbal.
- Smart phone support.
- Motion detection.
- ONVIF compliant.
- CMOS or MOS sensors.

Part No:	Description:
<b>LI-IPR-31EMX3</b>	HD H.264 Vandal resistant day-night IP video camera, 3-9mm varifocal length, 21m IR range MOS 0.2 LUX PoE/12vdc
<b>LI-IPR-312SX3</b>	HD H.264 Vandal resistant day-night IP video camera, 3-9mm varifocal length, 16m IR range CMOS 2 LUX 12vdc

## ➤ 1080P HD DAY & NIGHT DOME



### Features:

- Full HD 2 megapixel CMOS image sensor.
- True H.264 AVC/MPEG-4 part 10 real-time video compression.
- H.264 and Motion JPEG multi-profile video streaming.
- 3D noise reduction (MCTF).
- 2D WDR function.
- Digital PTZ supported.
- Face / Tampering / Motion detection alarm function.
- 3-Axis camera construction.
- Screw-on design dome cover for easy and secure installation.
- Day and night (IR cut removable).
- ONVIF supported.
- Support Sense-up Plus and Quadruple Streaming technologies.

Part No:	Description:
<b>LI-IPD-2122S</b>	Day and Night 1080P HD Dome IP Camera, 4.3mm Lens, 12Vdc

## > 1080P HD DOME IP CAMERA



Part No:	Description:
<b>LI-IPD-2220ES4.3</b>	1080P HD Dome IP camera, CMOS, 4.3mm Lens, PoE
<b>LI-IPD-220ES6</b>	1080P HD Dome IP camera, CMOS, 6mm Lens, PoE

### Features:

- > Full HD 2 megapixel CMOS image sensor.
- > True H.264 AVC/MPEG-4 part 10 real-time video compression.
- > H.264 and Motion JPEG multi-profile video streaming.
- > 3D noise reduction (MCTF).
- > 2D WDR function.
- > Digital PTZ supported.
- > Face / Tampering / Audio / Motion detection alarm function.
- > Built-in highly sensitive microphone.
- > One-way audio supported.
- > ONVIF supported.
- > Support Sense-up Plus and Quadruple Streaming technologies.

## > INTERNAL MINI DOME



### Features:

- > D1 resolution.
- > 12X.
- > Range of mounting options.
- > 3 patrols including self learn.
- > True day/night.
- > 540TVL resolution.
- > Analogue output.
- > LILIN and Pelco protocols.
- > Home position.
- > Smart phone support.
- > 4 dynamic privacy zones.
- > Comprehensive scheduling.

This new H.264 Mini Day/Night Speed Dome Camera is equipped with either a 2.6X or 12X optical Zoom Lens.

As with all our High Speed Domes, these cameras are packed with features such as 4 privacy zones, presets, 3 programmable tours all accessible via the simple to use on screen menus.

Complete with a composite video output, the cameras can still be controlled by RS-485 in addition to simultaneous network viewing and control. Free Network Video Recording (NVR) software is supplied with the Internal Mini High Speed Dome Camera.

Part No:	Description:
<b>LI-IPS-3124P</b>	D1 H.264 Internal mini high speed day-night IP video dome camera 12x zoom, presets, privacy
<b>LI-IPS-3034P</b>	D1, H.264, Internal mini day/night speed dome, 2.6x optical zoom, presets, privacy, ONVIF, 24V Bracket: 160mm(L)



## ► INTERNAL & EXTERNAL PTZ



**LI-IPS-0254P**



**LI-IPS-0354P**



**LI-IPS-1254P**

The fully functional H.264 High Speed Dome range with integrated IP Video Server is the ideal choice for remote surveillance applications. These domes deliver incredible performance and functionality, yet cost little more than our standard units.

Complete with a composite video output, the domes can still be controlled by RS-485 in addition to simultaneous network viewing and control. Free Network Video Recording (NVR) software is supplied with the High Speed IP Fast Dome Camera. There is a wide range of mounting options for internal and external use.

### Features:

- D1 resolution.
- 25X or 35X optical zoom.
- 5 patrols including self learn.
- ONVIF compliant.
- Comprehensive scheduling.
- 6 local alarm inputs.
- 520 TVL resolution.
- Smart phone support.
- LILIN and Pelco protocols.
- Daylight saving.
- 8 dynamic privacy zones.
- True day/night.

Part No:	Description:
<b>LI-IPS-1254P</b>	D1 H.264 Internal high speed day-night IP video dome camera 25x zoom, presets, privacy zones, alarms
<b>LI-IPS-0254P</b>	D1 H.264 External high speed day-night IP video dome camera 25x zoom, presets, privacy zones, alarms
<b>LI-IPS-0354P</b>	D1 H.264 External high speed day-night IP video dome camera 35x zoom, presets, privacy zones, alarms

## ► INTERNAL PTZ WITH IR



The fully functional H.264 High Speed Dome range with integrated IP Video Server is the ideal choice for remote surveillance applications. These domes deliver incredible performance and functionality, yet cost little more than our standard units.

Complete with a composite video output, the domes can still be controlled by RS-485 in addition to simultaneous network viewing and control. Free Network Video Recording (NVR) software is supplied with the High Speed IP Fast Dome Camera. There is a wide range of mounting options for internal and external use.

### Features:

- D1 resolution.
- 25X or 35X optical zoom.
- 5 patrols including self learn.
- ONVIF compliant.
- Comprehensive scheduling.
- 520 TVL resolution.
- Smart phone support.
- LILIN and Pelco protocols.
- Daylight saving.
- 4 dynamic privacy zones.
- True day/night.

Part No:	Description:
<b>LI-IPS-2124P</b>	D1 H.264 Internal mini high speed day-night IP video dome camera 12x zoom 16m IR range, presets, privacy
<b>LI-IPS-2034P</b>	D1, H.264, Internal mini day/night speed dome, 16m IR, 2.6x optical zoom, presets, privacy, ONVIF, 24V

## &gt; HD 720P EXTERNAL DAY/NIGHT WITH 20M IR



Available in a choice of 4.3mm, 6mm or 8mm lenses, the IPR-712 Series uses ED glass and is IR corrected to prevent focus shift when the powerful IR LEDs light up.

They also benefit from an IP66 rating, which allows the cameras to be installed in the most demanding environments.

**Features:**

- > H.264/JPEG dual streaming.
- > Up to 16m or 21m IR range.
- > True day/night.
- > IR cut filter.
- > 12Vdc.
- > IP66 rated.
- > ONVIF compliant.
- > 4.3mm, 6mm or 8mm lenses.
- > Smart phone support.
- > SD card recording (712S only).
- > High definition.

Part No:	Description:
<b>LI-IPR-712M6</b>	HD H.264 20m IR LED 6mm lens, MOS, 0.5 Lux, PoE/12vdc cable managed bracket inc. ONVIF
<b>LI-IPR-712M4.3</b>	HD, H.264, 20m IR LED, MOS, 4.3mm lens, 0.1 Lux, ONVIF, 12vdc, cable managed bracket inc.
<b>LI-IPR-712S4.3</b>	HD, H.264, 16m IR LED, CMOS, 4.3mm lens, 3 Lux, ONVIF, 12vdc, cable managed bracket inc.
<b>LI-IPR-712S6</b>	HD, H.264, 16m IR LED, CMOS, 6mm lens, 3 Lux, ONVIF, 12vdc camera

## &gt; EXTERNAL DAY/NIGHT WITH 40M IR



This camera has both a H.264 IP and an analogue output. The wide range varifocal lens uses ED glass and is IR corrected to prevent focus shift when the powerful IR LEDs light up.

**Features:**

- > 540 TVL resolution.
- > 40m IR range.
- > True day/night.
- > IR cut filter.
- > 1/3" Sony SuperHAD CCD.
- > 24Vac.
- > IP66 rated.
- > Cable managed bracket inc.
- > D1 resolution.
- > ONVIF compliant.
- > 3.3-12mm or 9-22mm lenses.

Part No:	Description:
<b>LI-IPR-454XSP</b>	D1, H.264 True day-night IP video camera, 9-22mm varifocal length, 40m IR range 24vac
<b>LI-IPR-454XWP</b>	D1, H.264 True day-night IP video camera, 3.3-12mm varifocal length, 40m IR range 24vac





## ► HD 1080P EXTERNAL DAY/NIGHT WITH 35 METRE IR LED



### Features:

- 1080P.
- Full HD 2 megapixel CMOS image sensor.
- True H.264 AVC/MPEG-4 part 10 real-time video compression.
- H.264 and Motion JPEG multi-profile video streaming.
- 3D noise reduction (MCTF).
- 2D WDR function.
- Digital PTZ supported.
- Face / Tampering / Audio / Motion detection alarm function.
- Cable managed housing and bracket.
- High efficiency IR LED, radiant distance up to 35m.
- Day and Night (IR cut removable).
- 2-way audio supported.
- Digital I/O: 1 in, 1 out.
- ONVIF supported.
- Dimensions Body: 121.5mm(W) x 109mm(H) x 231mm(D).
- Bracket: 160mm(L).
- Sense-up Plus.

Part No:	Description:
<b>LI-IPR-7424ESX3.6</b>	Day and Night 2MP HD Vari-Focal IR IP Camera CMOS 3.3 ~ 12mm lens

## ► HD EXTERNAL DAY/NIGHT 3 MEGAPIXEL WITH 45 METRE IR LED



### Features:

- Full HD 3.27 megapixel CMOS image sensor.
- True H.264 AVC/MPEG-4 part 10 real-time video compression.
- H.264 and Motion JPEG multi-profile video streaming.
- 3D noise reduction (MCTF).
- 2D WDR function.
- Digital PTZ supported.
- Face / Tampering / Audio / Motion detection alarm function.
- Cable managed housing and bracket.
- High efficiency IR LED, radiant distance up to 45m.
- Day and night (IR cut removable).
- 2-way audio supported.
- Digital I/O: 1 in, 1 out.
- ONVIF supported.
- Dimensions Body: 120mm(W) x 112mm(H) x 387mm(D).
- PoE +/24Vac.
- Sense-up Plus.

Part No:	Description:
<b>LI-IPR-434ESX3.6</b>	Day and Night 3MP HD Vari-Focal IR IP Camera 3.3 ~ 12mm lens
<b>LI-IPR-434ESX2.4</b>	Day and Night 3MP HD Vari-Focal IR IP Camera 9 ~ 22mm lens

## &gt; HD 720P EXTERNAL DAY/NIGHT WITH 30 METRE IR LED



With a choice of 30m IR illumination, these HD True Day/Night cameras produce outstanding images in low light conditions. Available in a choice of 4.3mm, 6mm lenses, the IPR-614 Series uses ED glass and is IR corrected to prevent focus shift when the powerful IR LEDs light up.

They also benefit from an IP66 rating, which allows the cameras to be installed in the most demanding environments.

**Features:**

- > Bracket included.
- > PoE (IEEE 802.3at) or 24Vac.
- > Up to 30m IR range.
- > True day/night.
- > Motion detection.
- > IR cut filter.
- > Smart phone support.
- > IP66 rated.
- > 4.3mm, 6mm lenses.
- > High definition.

Part No:	Description:
<b>LI-IPR-614ES4.3</b>	HD, H.264, 30m IR led, CMOS, 4.3mm lens, 1 lux, ONVIF, PoE +/-24Vac
<b>LI-IPR-614ES6</b>	HD, H.264, 30m IR led, CMOS, 6mm lens, 1 lux, ONVIF, PoE +/-24Vac

## &gt; HD 720P EXTERNAL DAY/NIGHT WITH 40 METRE IR LED



Available in High Definition, these cameras provide up to 40m IR illumination. The cameras have a range of varifocal lenses and come complete with a cable managed bracket.

The IPR-414 offers High Definition and PoE functionality.

**Features:**

- > Up to 40m IR range.
- > True day/night.
- > SD card recording (414ESX only).
- > 2 way audio support (414ESX only).
- > High definition.
- > Cable managed bracket inc.
- > IP66 rated.
- > PoE (IEEE 802.3at).
- > ONVIF compliant.
- > 3-9mm varifocal lenses (ESX) 3.3-12mm (EMX).
- > Smart phone support.

Part No:	Description:
<b>LI-IPR-414EMX</b>	HD H.264 Day-night IP video camera, 3.3-12mm varifocal length, 40m IR range MOS 0.3 Lux PoE +/-Vac
<b>LI-IPR-414ESX</b>	HD H.264 Day-night IP video camera, 3-9mm varifocal length, 40m IR range CMOS 2 Lux PoE +/-Vac



## ➤ HD DAY & NIGHT 3 MEGAPIXEL WITH VARI-FOCAL 60 METRE IR LED



### Features:

- Full HD 3.27 megapixel CMOS image sensor.
- True H.264 AVC/MPEG-4 part 10 real-time video compression.
- H.264 and Motion JPEG multi-profile video streaming.
- 3D noise reduction (MCTF).
- 2D WDR function.
- Digital PTZ supported.
- Face / Tampering / Audio / Motion detection alarm function.
- Cable managed housing and bracket.
- High efficiency IR LED, radiant distance up to 60m.
- Day and Night (IR cut removable).
- 2-way audio supported.
- Digital I/O: 1 in, 1 out.
- ONVIF supported.
- Support Sense-up Plus and Quadruple Streaming technologies.

Part No:	Description:
<b>LI-IPR-7334SX</b>	Day and Night 3MP HD Vari-Focal IR IP Camera 24Vac, 10-50mm Varifocal Lens, 60 metre IR

## ➤ HD 1080P EXTERNAL DAY/NIGHT 2 MEGAPIXEL WITH 21 METRE IR LED



### Features:

- 1080P.
- Full HD 2 megapixel CMOS image sensor.
- True H.264 AVC/MPEG-4 part 10 real-time video compression.
- H.264 and Motion on JPEG multi-profile video streaming.
- 3D noise reduction (MCTF).
- 2D WDR function.
- Digital PTZ supported.
- Face / Tampering / Motion detection alarm function.
- High efficiency IR LED, radiant distance up to 21m.
- Day and Night (IR cut removable).
- ONVIF supported.
- Dimensions Body: 82mm(W) x 72.5mm(H) x 154mm(D).
- Bracket: 101mm(L).
- Sense-up Plus.
- SD card support.
- 12vdc.

Part No:	Description:
<b>LI-IPR-722S4.2</b>	Day and Night 2MP HD IR IP Camera CMOS 4.3 mm lens
<b>LI-IPR-722S6</b>	Day and Night 2MP HD IR IP Camera CMOS 6 mm lens

## ► HD 1080P CS MOUNT DAY/NIGHT 2 MEGAPIXEL



### Features:

- 1080P.
- Full HD 2 megapixel CMOS image sensor.
- True H.264 AVC/MPEG-4 part 10 real-time video compression.
- H.264 and Motion JPEG multi-profile video streaming.
- 3D noise reduction (MCTF).
- 2D WDR function.
- Digital PTZ supported.
- Face / Tampering / Audio / Motion detection alarm function.
- Day and Night (IR cut removable).
- 2-way audio supported.
- Digital I/O: 1 in, 1 out.
- ONVIF supported.
- Dimensions: 70mm(W) x 50mm(H) x 122mm(D).
- Sense-up Plus.

Part No:	Description:
<b>LI-IPG-1022ES</b>	Day and Night 2MP HD IP Camera 1/2.7" CMOS, lens 2.8-8mm

## ► HD 720P CS MOUNT DAY/NIGHT



The IPG Series offers High Definition H.264 video streaming. A True Day/Night Camera with an IR Cut Filter, the IPG Series can be set to switch automatically or on a schedule.

### Features:

- High definition.
- Audio input.
- ONVIF compliant.
- Built-in high sensitivity microphone.
- H.264 and JPEG dual streaming.
- PoE (IEEE 802.3af) and 12Vdc.
- True day/night.
- IR cut filter.
- CS mount lens not included.

Part No:	Description:
<b>LI-IPG-012ES</b>	HD H.264 Day-nightbody IP video camera, PoE-12v, CMOS 1 LUX no lens

# ACCESSORIES

## ► BRACKETS & MOUNTS



LI-PIH-520G



LI-PIH-520LB

Part No:	Description:
<b>LI-PIH-510CPM</b>	Corner-pole mount adaptors for PIH-520lb
<b>LI-PIH-520G</b>	External swan neck bracket for external domes
<b>LI-PIH-520HB</b>	External pendant bracket and box for external domes
<b>LI-PIH-520L</b>	External wall bracket for external domes
<b>LI-PIH-520LB</b>	External wall bracket and box for external domes
<b>LI-PIH-CPM</b>	Corner-pole mount adaptors for PIH-520l
<b>LI-PIHTFTCB</b>	Ceiling vesa mount bracket for TFT monitors
<b>LI-PIHTFTWB</b>	Wall vesa mount bracket for TFT monitors



Can't find what you're looking for? Then contact us...



## ► DIGITAL VIDEO RECORDER



### Specifications:

- Recording: SATA HDD: 1 x Internal, 1 x External.
- Video Source: Any combination of 4 analogue and/or IP cameras, 4 extra IP cameras for recording.
- Compression: H264 and JPEG.
- Resolution: Full D1: 720 x 576, CIF: 320 x 288.
- Speed: 100FPS at full D1.
- Frame Rate: Configurable for each channel.
- Record Mode: Manual, schedule, external alarm, motion detection.
- Backup: USB 2.0, HTTP file download, audio supported.
- Video: Output BNC \*2.
- Alarm: Motion detection, external alarm.
- Audio: Yes.
- VGA Output: 3D intellectual motion adoptive refinement with vivid image enhancement VGA engine.
- HDMI: Up to 1920 x 1080.
- Digital Zoom: ROI for 5x and 9x with PIP at live and playback mode.
- Matrix: Control NDR and IP Fast Dome via TCP/IP by multiple keyboards.
- Motion: Motion grid 44\*36 each channel.
- Event: Alarm notification with JPEG attachments.

NDR stands for Network Digital Recorder; a combination of high performance DVR and IP NVR in a familiar appliance based product.

Delivering this hybrid solution was not simply a matter of adding IP recording to our current DVR range; this is an entirely new solution with a unique system architecture that provides a building block approach to system design and expansion.

Installers and users of LILIN DVR's will find many familiar functions as the menu structure is based on previous products. The NDR's can be controlled by the front panel buttons, IR remote control and PIH-931D Keyboard. Certain functions such as live video and playback can be accessed across a network using Internet Explorer or our own NVR 3.0 software.

H.264 compression enables real time recording and display at D1 resolutions, with SVGA, composite and HDMI monitor outputs.

Endless expansion and ONVIF compliance should ensure future proofing and interoperability for ultimate system flexibility. IP scan functions simplify configuration and automate installations, simple USB backup now has a shortcut button on playback for one touch exporting of recordings.

Part No:	Description:
<b>LI-NDR-104</b>	4 channel hybrid IP recorder with 4 analogue inputs
<b>LI-NDR-104-1TB</b>	4 channel hybrid IP recorder with 4 analogue inputs 1tb hdd
<b>LI-NDR-104-2TB</b>	4 channel hybrid IP recorder with 4 analogue inputs 2tb hdd

## ► HD 1080P 30 FPS 16 CHANNEL NVR



### Features:

- Multi-touch screen supported.
- 1080P at 30 FPS real-time network video recorder for 16-channel.
- Full HD 1920x1080 HDMI output.
- Support 8 SATA HDDs up to 24TB, 1 eSATA, and 2 USB2.0.
- 3G mobile phone (iPhone, iPad, Blackberry and Android) solutions provided.
- Free CMX software HD 3.6 supported.
- Dimensions: 434mm x 411.4mm x 88mm.

Part No:	Description:
<b>LI-NVR-116</b>	1080P 30 FPS 16-Channel Standalone NVR

## ► MONITORS/PERIPHERALS



Part No:	Description:
<b>LI-PDR-1TB</b>	1000GB SATA Hard Drive for M Series NVR
<b>LI-PDR-2TB</b>	2000GB SATA Hard Drive for M Series NVR
<b>LI-K205</b>	Keyboard with joystick for M series NVD
<b>LI-PMHXT17</b>	17" monitor SVGA input 1028 x 1024 vesa mount
<b>LI-PMHXT20W</b>	20" monitor SVGA input 1028 x 1024 vesa mount widescreen
<b>LI-PMHXT22W</b>	22" monitor SVGA input 1680 x 1050 vesa mount widescreen

## ► CMX NETWORK VIDEO RECORDER TOWERS



### Features:

- Central management system.
- Manage remote IP cameras and DVR devices.
- Record and manage 36 channels.
- Full HD recording for LILIN H.264 IP cameras.
- Scheduled recording.
- E-Map alarm or motion notification.
- Remote device status monitoring.
- Remote device manager.
- Device grouping and recall.
- PTZ controls for IP Fast Domes.
- Easy to use calendar for video playback.
- Complete operational event logs.
- Configurable user access levels.
- Reduces installation and maintenance costs.

Part No:	Description:
<b>LI-CMX-4</b>	4 Channel IP camera recording system with Emap and DVR monitoring in PC Shuttle 1TB Storage
<b>LI-CMX-16</b>	16 Channel IP camera recording System with Emap and DVR monitoring in PC Tower Case
<b>LI-CMX-36</b>	36 Channel IP camera recording System with Emap and DVR monitoring in PC Tower Case

## ► GVD NETWORK VIDEO RECORDER RACK MOUNT



### Quick Navigation

The IP HD NVR supports HTML maps for easy navigation to cameras in multiple locations. Users can directly download maps from the Internet or from any appropriate programme. With the powerful HTML feature, users can put camera icons on the maps, add hyperlinks and bring up live video directly from the map with a click of the mouse.

### Sub-Channel and Dual Codec

With this powerful feature, users can flexibly plan their recording and streaming solution based on the available storage and bandwidth at each location.

### Features:

- Pre-built with 32, 48 and 64 channels, best for large scale D1, 1.3M to 10M camera installations.
- Server class rack-mountable chassis.
- Supports highly scalable and redundant solutions by using the M800 Backup and M900 Failover Servers.
- Supports powerful CMS workstation for complete remote management on a large NVR network.

The M600-Series is a powerful video surveillance system that suits the needs of any enterprise solution. This rack-mountable recorder can scale to more than 100TB video storage. It is an ideal solution for mission critical applications such as city surveillance, transportation and homeland security projects.

Part No:	Description:
<b>LI-M640-C064-JB</b>	HD 64 channel IP NVR, 4u server case with 16 bays, raid support, jbod sos support
<b>LI-M640-C064-DV</b>	HD 64 channel IP NVR, 4u server case with 16 bays, raid support, dual HD/SVGA output
<b>LI-M640-64</b>	HD 64 channel IP NVR, 4u server case with 16 bays, raid support
<b>LI-M630-C048-JB</b>	HD 48 channel IP NVR, 3u server case with 12 bays, raid support, JBOD SAS interface
<b>LI-M630-C048-DV</b>	HD 48 channel IP NVR, 3u server case with 12 bays, raid support, HD/SVGA dual output
<b>LI-M630-C048</b>	HD 48 channel IP NVR, 3u server case with 12 bays, raid support
<b>LI-M620-C032-DV</b>	HD 32 channel IP NVR, 2u server case with 8 bays, raid support, HD/SVGA dual output
<b>LI-M620-C032</b>	HD 32 channel IP NVR, 2u server case with 8 bays, raid support
<b>LI-M620-25</b>	HD 25 channel IP NVR, 2u server case with 6 bays
<b>LI-M620-16</b>	HD 16 channel IP NVR, 2u server case with 6 bays
<b>LI-M620-08</b>	HD 8 channel IP NVR, 2u server case with 6 bays



## ► GVD NETWORK VIDEO RECORDER

This is a range of high performance IP Network Video Recorders for HD Cameras. Capable of recording and displaying up to 64 Megapixel streams simultaneously, they support a wide range of IP cameras including LILIN.

With a brilliantly easy time line search with a drag and drop facility for exporting clips for copying to the DVD burner or network location makes this one of the easiest NVR products to operate.

Users can define multiple regions of interest, creating separate channels of recording for sections of a megapixel image, rather than recording the entire frame. This range of IP HD Network Video Recorders are available from 8 to 32 channels, with up to 14TB of internal storage.

### Quick Navigation

The IP HD NVR supports HTML maps for easy navigation to cameras in multiple locations. Users can directly download maps from the Internet or from any appropriate programme.

## ► M100 SERIES



The M100 Series is a compact and innovative all in one recording solution for multi-camera monitoring, recording and playback. Measuring only 27cm wide, it offers unsurpassed security operations in a space-saving design. It is an ideal solution for small to mid-sized installations.

### Features:

- Mini desktop recorder with embedded system design.
- New front panel design for quick video operations.
- Reliable recording solution with local display capability and for remote client viewing high performance video streaming.
- Pre-built 4, 8 and 12 channels best for D1~3M installations.
- Compact design with local VGA display capability.
- Supports large data throughput for multiple megapixel cameras triplex video functions.
- Easy video export function with DVD, USB or network disk drives.
- Equipped with the reliable and robust DOM-based virus resistant Windows embedded platform.
- Operates with HD NVR Client to meet the needs of simple remote monitoring.

Part No:	Description:
<b>LI-M155-C012</b>	HD 12 Channel IP NVR, Desktop, with front panel operation, 4GB, 2HDD bays
<b>LI-M155-C008</b>	HD 08 Channel IP NVR, Desktop, with front panel operation, 4GB, 2HDD bays
<b>LI-M155-C004</b>	HD 04 Channel IP NVR, Desktop, with front panel operation, 4GB, 2HDD bays
<b>LI-M150-C012</b>	HD 12 Channel IP NVR, Desktop, with front panel operation, 2GB, 2HDD bays
<b>LI-M150-C008</b>	HD 08 Channel IP NVR, Desktop, with front panel operation, 2GB, 2HDD bays
<b>LI-M150-C004</b>	HD 04 Channel IP NVR, Desktop, with front panel operation, 2GB, 2HDD bays

With the powerful HTML feature, users can put camera icons on the maps, add hyperlinks and bring up live video directly from the map with a click of the mouse.

### Exporting Video

The spooler is an area designed for temporary video bookmarking. With a single click of the mouse, users can easily save and export video/images. The video can be previewed in the spooler to verify the content and quality of video/images before exporting.

By taking full advantage of the cameras multiple-streaming feature, GVD NVR supports up to two additional sub-channel streams independent from the main stream.

### Sub-Channel and Dual Codec

With this powerful feature, users can flexibly plan their recording and streaming solution based on the available storage and bandwidth at each location.

## ► M350 SERIES



The M350 Series is a unique combination of easy front panel design and an easy to use full-featured turnkey solution. Equipped with an embedded DOM system, it provides reliability and stability and is an ideal solution for mid-sized installations.

### Features:

- Super standalone up to four HDDs with dual monitors.\*
- High performance and unique front panel design.
- Best for medium and multi-site applications.
- User friendly front panel design to easily control functions.
- Pre-built 16, 24 or 32 channels with up to four hard disk drives.
- Supports large data throughput for multiple megapixel cameras.

\*DV version only.

Part No:	Description:
<b>LI-M350-C032</b>	HD 32 Channel IP NVR, Rackmountable, 4HDD bays, DVD
<b>LI-M350-C032-DV</b>	HD 32 Channel IP NVR, Rackmountable, 4HDD bays, DVD, Dual HD/SVGA Output
<b>LI-M350-C024</b>	HD 24 Channel IP NVR, Rackmountable, 4HDD bays, DVD
<b>LI-M350-C024-DV</b>	HD 24 Channel IP NVR, Rackmountable, 4HDD bays, DVD, Dual HD/SVGA Output
<b>LI-M350-C024-AR</b>	HD 24 Channel IP NVR, Rackmountable, 4HDD bays, DVD, Raid Support
<b>LI-M350-C016</b>	HD 16 Channel IP NVR, Rackmountable, 4HDD bays, DVD
<b>LI-M350-C016-DV</b>	HD 16 Channel IP NVR, Rackmountable, 4HDD bays, DVD, Dual HD/SVGA Output
<b>LI-M350-C016-AR</b>	HD 16 Channel IP NVR, Rackmountable, 4HDD bays, DVD, Raid Support

# VIDEO ENCODERS

## > SINGLE CHANNEL VIDEO ENCODER



This encoder forms part of an IP Video system. It works as a server by streaming analogue video to the network. Using the VS-012, live video can be viewed on any PC running Internet Explorer and the supplied NVR software enables viewing and recording of multiple channels.

H.264 compression means the Encoder is compatible with many devices including the iPhone, it delivers high frame rates even across 3G networks.

Many network video recording applications work with the VS-012, including LILIN Network Video Recorders, both locally and via the network. This unit also encodes audio and provides a multi-protocol telemetry output for Pan, Tilt and Zoom Cameras. There is a single alarm input and two switched outputs. An SD card can also be installed for local alarm image storage.

The VS-012 is now supported by Milestone Video Management Software through the ONVIF standard. This flexible video server will suit many new and hybrid IP Video Solutions.

### Features:

- > Single channel.
- > Audio support.
- > H.264 and JPEG dual streaming.
- > Full D1 resolution at 720x576.
- > Supported by Internet Explorer.
- > One alarm input.
- > Two relay outputs.
- > SD card.
- > Full duplex streaming.
- > ONVIF compliant.
- > 12Vdc.
- > Free NVR software.

Part No:	Description:
<b>LI-VS-012</b>	Single channel video encoder

## > RACK MOUNT ADAPTOR PLATE



This rack mount plate can accomodate up to eight videoservers.

### Features:

- > 12Vdc.
- > 1-8 12Vdc connectors included.
- > 850g.
- > 480mm x 133.5mm x 2mm.

Part No:	Description:
<b>LI-BTE02S</b>	Rack mount kit for VS-012

# FIBRE TRANSMISSION

## > DATA ONLY



One channel, multi-protocol, bi-directional data point-to-point transmission.

### Features:

- > Supports RS-232, RS-422 and RS-485 (2w and 4w).
- > Multimode and singlemode.
- > LED indicators provide quick diagnosis of all important system parameters.
- > Switchable 120Ω termination and biasing.
- > Up to 14 receivers in one 3U chassis.
- > Compact and 3U chassis card configurations.

Part No:	Description:
<b>K-FDDB1-M1R-BS</b>	Full duplex multiprotocol data RX, 1 mm fibre ST, 3u card
<b>K-FDDB1-M1R-MSB</b>	Full duplex multiprotocol data RX, 1 mm fibre ST, compact
<b>K-FDDB1-M1T-BS</b>	Full duplex multiprotocol data TX, 1 mm fibre ST, 3u card
<b>K-FDDB1-M1T-MSB</b>	Full duplex multiprotocol data TX, 1 mm fibre ST, compact

For SM replace **M** with **S**



Can't find what you're looking for? Then contact us...



## ► VIDEO ONLY



The KBC FDVA series uses the most advanced digital technologies to provide excellent, repeatable performance for today's CCTV systems. It supports transmission of one analogue composite video channel over one multimode or singlemode optical fibre. Products with one, two or four individual modules within a single unit are available, offering substantial savings in racking and power requirements on site. PAL, NTSC and SECAM video standards are fully supported. The series is available in compact wall-mount or 3U chassis card.

### Features:

- 8 or 10 bit digitally-encoded, non-compressed video transmission.
- Multimode and singlemode solutions.
- Unique 4 channel wall-mount and 3U card module.
- Up to 56 receivers in one 3U chassis.

Part No:	Description:
<b>K-FDVA1-M1T-BS</b>	Video only transmitter, 1 mm fibre ST, 3u card
<b>K-FDVA1-M1T-MSB</b>	Video only transmitter, 1 mm fibre ST, compact
<b>K-FDVA2-M2T-BS</b>	2 channel video only transmitter, 2 mm fibre ST, 3u card
<b>K-FDVA2-M2T-WSB</b>	2 channel video only transmitter, 2 mm fibre ST, box
<b>K-FDVA4-M4T-BS</b>	4 channel video only transmitter, 4 mm fibre ST, 3u card
<b>K-FDVA4-M4T-WSB</b>	4 channel video only transmitter, 4 mm fibre ST, box

For SM replace **M** with **S**

Part No:	Description:
<b>K-FDVA1-M1R-BS</b>	Video only receiver, 1 mm fibre ST, 3u card
<b>K-FDVA1-M1R-MSB</b>	Video only receiver, 1 mm fibre ST, compact
<b>K-FDVA2-M2R-BS</b>	2 channel video only receiver, 2 mm fibre ST, 3u card
<b>K-FDVA2-M2R-WSB</b>	2 channel video only receiver, 2 mm fibre ST, box
<b>K-FDVA4-M4R-BS</b>	4 channel video only receiver, 4 mm fibre ST, 3u card
<b>K-FDVA4-M4R-WSB</b>	4 channel video only receiver, 4 mm fibre ST, box

For SM replace **M** with **S**

## ► VIDEO ONLY MUXES



### Features:

- 8 or 10 bit digitally-encoded, non-compressed video transmission.
- Multimode and singlemode solutions.
- Card module requires just 1 slot of 3U chassis.
- LED indicators provide quick diagnosis of all important system parameters.

The KBC FDVA4 series uses the most advanced digital technologies to provide excellent repeatable performance for today's CCTV systems. It supports transmission of four analogue composite video channel over one multimode or singlemode optical fibre. PAL, NTSC and SECAM video standards are fully supported. The plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to show the operational status of the unit clearly. The series is available in compact wall-mount or 3U chassis card.

Part No:	Description:
<b>K-FDVA4-M1R-BS</b>	4 channel video only dmux receiver, 1 mm fibre ST, 3u card
<b>K-FDVA4-M1R-WSB</b>	4 channel video only dmux receiver, 1 mm fibre ST, box
<b>K-FDVA4-M1T-BS</b>	4 channel video only mux transmitter, 1 mm fibre ST, 3u card
<b>K-FDVA4-M1T-WSB</b>	4 channel video only mux transmitter, 1 mm fibre ST, box

For SM replace **M** with **S**

## ► VIDEO AND DATA



The KBC FDVA-DB1 series uses the most advanced digital technologies to provide excellent repeatable performance for today's CCTV systems. It supports transmission of one analogue composite video channel and one bi-directional data channel over one multimode or singlemode optical fibre. PAL, NTSC and SECAM video standards are fully supported and the data channel supports all standard PTZ (Pan-Tilt-Zoom) control signals. The plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to clearly show the operational status of the unit. The series is available in compact or 3U chassis card.

### Features:

- 8 or 10 bit digitally-encoded, non-compressed video transmission.
- Unique, 2 channel card module.
- Up to 28 receivers in one 3U chassis.
- Cost effective WDM single fibre solution.
- Switchable 120Ω termination and line biasing.
- LED indicators provide quick diagnosis of all important system parameters.
- Multimode and singlemode models.
- Compact and 3U chassis card configurations.

Part No:	Description:
<b>K-FDVA1-DB1-M1R-BS</b>	Video receiver, bi-directional data, 1 mm fibre ST, 3u card
<b>K-FDVA1-DB1-M1R-MSB</b>	Video receiver, bi-directional data, 1 mm fibre ST, compact
<b>K-FDVA2-DB2-M2R-BS</b>	Dual video receiver, dual bi-directional data, 2 mm fibre ST, 3u card
<b>K-FDVA1-DB1-M1T-BS</b>	Video transmitter, bi-directional data, 1 mm fibre ST, 3u card
<b>K-FDVA1-DB1-M1T-MSB</b>	Video transmitter, bi-directional data, 1 mm fibre ST, compact
<b>K-FDVA2-DB2-M2T-BS</b>	Dual video transmitter, dual bi-directional data, 2 mm fibre ST, 3u card

For SM replace **M** with **S**

## ► VIDEO DATA AND CONTACT CLOSURE



The KBC FDVA-DB1-IB1 series uses the most advanced digital technologies to provide excellent repeatable performance for today's CCTV systems. It supports transmission of one analogue composite video channel, with one bi-directional data channel and one bi-directional contact closure signal over one multimode or singlemode optical fibre. PAL, NTSC and SECAM video standards are fully supported and the data channel supports all standard PTZ (Pan-Tilt-Zoom) control signals. The plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to clearly show the operational status of the unit. The series is available in compact or 3U chassis card.

### Features:

- 8 or 10 bit digitally-encoded, non-compressed video transmission.
- Fully independent, bi-directional contact closure circuit.
- Up to 14 receivers in one 3U chassis.
- Cost effective WDM single fibre solution.
- Switchable 120Ω termination and line biasing.
- LED indicators provide quick diagnosis of all important system parameters.
- Multimode and singlemode models.

Part No:	Description:
<b>K-FDVA1-DB1-IB1-M1R-BS</b>	Video receiver, bi-directional data and contact closure, 1 mm fibre ST, 3u card
<b>K-FDVA1-DB1-IB1-M1R-MSB</b>	Video receiver, bi-directional data and contact closure, 1 mm fibre ST, compact
<b>K-FDVA1-DB1-IB1-M1T-BS</b>	Video transmitter, bi-directional data and cc, 1 mm fibre ST, 3u card
<b>K-FDVA1-DB1-IB1-M1T-MSB</b>	Video transmitter, bi-directional data and cc, 1 mm fibre ST, compact

For SM replace **M** with **S**



Can't find what you're looking for? Then contact us...

## ► VIDEO AND UP-THE-COAX DATA



The KBC FCHA1 series uses the most advanced digital technologies to provide excellent repeatable performance for today's CCTV systems. It supports transmission of one video channel, one 'Up the Coax' data channel and two duplex contact closure channels over one multimode or singlemode optical fibre.

PAL, NTSC and SECAM video standards are fully supported. The plug-and-play design ensures ease of installation with no electrical or optical adjustment needed. LED indicators are provided to clearly display the operational status of the unit. The series is available in wall mount and 3U chassis card.

### Features:

- 10 bit digitally-encoded, non-compressed video transmission.
- Dual module 3U chassis card.
- Compatible with all major 'Up the Coax' manufacturers' equipment.
- 2 full duplex contact closure channels.

Part No:	Description:
<b>K-FCHA1-M1R-BS</b>	Video receiver, up coax data, 2 contact closures, 1 mm fibre ST, 3u card
<b>K-FCHA1-M1T-WSB</b>	Video and up the coax data, 2 contact closures wall mount TX unit, 1 no. Mm fibre, ST. Psu inc
<b>K-FCHA1-M1R-WSB</b>	Video and up the coax data, 2 contact closures wall mount RX unit, 1 no. MM fibre, ST
<b>K-FCHA1-M1T-BS</b>	Video and up the coax data, 2 contact closures 3U card TX unit, 1 no. MM fibre, ST

For SM replace **M** with **S**

## ► VIDEO AND DATA MUX



The KBC FDVA4-DB1 series uses the most advanced digital technologies to provide excellent repeatable performance for today's CCTV systems. It supports transmission of four analogue composite video channels and one bi-directional data channel over one multimode or singlemode optical fibre. PAL, NTSC and SECAM video standards are fully supported and the data channel supports all standard PTZ (Pan-Tilt-Zoom) control signals. The plug-and-play design ensures ease of installation with no electrical or

optical adjustment needed. LED indicators are provided to show the operational status of the unit clearly. The series is available in compact, wall mount or 3U chassis card.

### Features:

- 8 or 10 bit digitally-encoded, non-compressed video transmission.
- Multimode and singlemode solutions.
- Card module requires just 1 slot of 3U chassis.
- Switchable 120Ω termination and biasing.
- LED indicators provide quick diagnosis of all important system parameters.

Part No:	Description:
<b>K-FDVA4-DB1-M1R-BS</b>	4 channel video dmx receiver, bi-directional data, 1 MM fibre ST, 3u card
<b>K-FDVA4-DB1-M1R-WSB</b>	4 channel video dmx receiver, bi-directional data, 1 MM fibre ST, box
<b>K-FDVA4-DB1-M1T-BS</b>	4 channel video mux transmitter, bi-directional data, 1 MM fibre ST, 3u card
<b>K-FDVA4-DB1-M1T-WSB</b>	4 channel video mux transmitter, bi-directional data, 1 MM fibre ST, box

For SM replace **M** with **S**

## ► CHASSIS



The KBC FR3 series chassis is a high quality 3U, 19" rack mounted card cage. It can accommodate up to 14 single slot 3U cards, or a number of various width cards, depending on the number of slots required by each individual product. Any 3U card product can be located in the FR3 chassis, in any location and next to any other model. All modules located within the rack are hot swappable, removing the need to power down the chassis when carrying out maintenance or making additions to the installation. All electrical and optical connections are to the rear, with all LED status indicators to the front.

A dual redundant PSU option is available, with the second PSU requiring 2 slots of the chassis, leaving 12 slots for card units. All integrated PSUs are modular.

Part No:	Description:
<b>K-FR3-BA</b>	3u 19 14 slot chassis with modular PSU and blanking panels
<b>K-FR3-BA-RP</b>	3u 19 14 slot chassis with modular PSU blanking panels and redundant PSU

# KBC

## ► HARDWARE VPN



The KBC ThruLink is a hardware VPN device that allows secure communications to be established over any standard, public or private TCP/IP network. ThruLink performs behind firewalls, NAT devices and through nearly any other type of network configuration and offers encrypted communication for all TCP/IP protocols regardless of the type of traffic. When deployed, ThruLink provides a secure and encrypted tunnel for network communications that will not affect TTL, UPnP, VLAN information, broadcast, multicast, or any other traffic.

### Features:

- Provides secure and encrypted communication via tunnelling.
- Optimised for video.
- "At a Glance" status check display.
- Rack mount style server.
- Easy to use GUI interface.
- Eliminates the need to make network changes.
- Failover functionality.
- Diagnostic tools: network traffic monitoring, basic traceroute and ping function.
- Can be used for mobile 3G applications.
- DDNS, DHCP, SNMPv3.

Part No:	Description:
<b>K-THLK-S2-WB</b>	ThruLink standard 30Mbps tunneling transceiver, 1 LAN port, 1 WAN port, wall mount
<b>K-THLK-H2-RB</b>	ThruLink high capacity 250Mbps tunneling transceiver, 1 LAN port, 1 WAN port, 1u rack mount





# WIRELESS

KBC's Wireless Ethernet Systems offer superior wireless connectivity in point-to-point (PtP), point-to-multipoint (PtMP) and mesh configurations.

LILIN's "Airlive" wireless products are all external devices with built in antennas and varying frequencies, bandwidths, transmission ranges and configurations. For most IP Video applications two matched devices would be required to create a link but in AP mode one device acts as an access point to communicate with multiple transmitters. Consideration should always be made to required bandwidth and we would be happy to help with any wireless system designs.

➤ LILIN	188
➤ KBC	189



## ► AIRLIVE AIRMAX



The AirLive, AirMax5, is the new generation of all-in-one wireless 5GHz CPE built to the highest standard. It greatly surpasses the competition in value, feature, performance, and reliability.

If you are looking for a cost effective way to build your wireless outdoor network that can withstand the test of time, look no further. AirMax5 is the first choice.

The AirMax5 comes with almost everything you need to build 5GHz outdoor connection instantly. The CPE enclosure is built with high grade, anti-UV materials, for protection from prolonged sunshine and rain. It includes an integrated 14dBi 5GHz antenna with horizontal, vertical, or diversity polarisation. The internal PCBA slides out for easy maintenance. To speed up your installation process, there is also a 4-level LED to assist you with Antenna alignment. The built-in advanced passive Power Over Ethernet will let your AirMax5 operate up to 100 metre distance from power source.

Part No:	Description:
<b>LI-AIRMAX-5</b>	5GHZ 802.11A external wireless device upto 10km

The AirMax2 is a wireless outdoor CPE that combines our expertise in WISP products. It is meticulously designed inside out to meet all the outdoor application requirements.

The AirMax2 comes with almost everything you need to build 2.4GHz outdoor connection instantly. The CPE enclosure is built with high grade anti-UV materials for protection from prolonged sunshine and rain. Therefore, it is suitable for both outdoor and industrial applications. Inside the housing is an integrated 10dBi panel antenna projecting in the forward direction. The internal PCBA slides out for easy maintenance. To speed up your installation process, there is also a 4-level LED to assist you with Antenna alignment. The built-in advanced passive Power Over Ethernet will let your AirMax2 operate up to 100 metre distance from power source.

Part No:	Description:
<b>LI-AIRMAX-2</b>	2.4GHZ 802.11B-G external wireless device upto 3km

## ► AIRLIVE WHA



The WHA-5500CPE is AirLive's flagship 5GHz all-in-one Outdoor CPE. It is designed with high performance and long distance in mind. From the full range 18dBi built-in antenna that can deliver up to 25km distance to the 802.3af compliant PoE kit, the CPE is built with the highest outdoor grade materials. Now, with the new AirMax5 Extreme firmware, it is also the most powerful and easy-to-use outdoor CPE.

The WHA-5500CPE comes with almost everything you need to build 5GHz connection instantly. The CPE enclosure is rain and splash proof. It includes an integrated 18dBi 5GHz antenna and 802.3af compliant Power-Over-Ethernet Kits. The only thing you need is an outdoor Cat-5 PoE cable and then you can establish long distance connection instantly. With each product is the step-by-step instruction video to help you setup the CPE quickly. Metal mounting kits for both pole mounting and wall mounting are also included.

Part No:	Description:
<b>LI-WHA-5500CPE</b>	5GHZ 108 Mbps 802.11A outdoor CPE with 18dBi antenna up to 25 km

As the leading global WISP solution provider, AirLive understands the application environments of WISP operators. The AirLive WH-5420CPE is the new generation of AirLive Outdoor Wireless CPE that is built upon years of experience and heritage from our high performance Access Points series. It is equipped with the latest Clear Signal Technology and earth shattering 40dBm combined output power (for South America only) deliver the longest and most stable wireless connection possible.

The AirLive WH-5420CPE can operate in 8 different wireless modes. It can work as a Wireless Router, AP, Client, Repeater, Bridge, and much more. Whether it is for home, office, or WISP; the AirLive AP has a solution for you.

Part No:	Description:
<b>LI-WHA-5420CPE</b>	2.4GHZ 108 Mbps 802.11B-G outdoor CPE with 14dBi antenna up to 15 km





Supporting a 10/100 Ethernet interface, KBC's WESII units provide a reliable and efficient transmission solution where it's not possible or cost-effective to install cabling.

IEEE802.11a/n and 802.11h compliance means that the WESII units operate in the license-free 5GHz band; feature MIMO technology to increase system throughput and transmission distance and comply with DFS and TPC standards (Dynamic Frequency Selection and Transmit Power Control). The units provide up to 100Mbps of usable throughput and employ WPA2 encryption to prevent unauthorised access. Designed to operate in unconditioned environments, WESII units have weatherproof casings and wide operating temperature ranges. The units come with the option of a number of directional and omnidirectional antennas.

The units are straightforward to set up and configure. They feature a built-in site survey tool to assess local, in-band noise which allows an appropriate transmission frequency to be selected. In addition, an antenna alignment tool allows you to check the signal strength at the client and the host, ensuring that the antennas are positioned to use the optimal signal path.

## WESII Features:

- IEEE802.11a/n and 802.11h compliant.
- Up to 100Mbps throughput.
- MIMO technology.
- WPA2 encryption.
- IP66 casing.
- Range of antenna options.
- Antenna alignment and signal survey tools.
- Suitable for long-range wireless deployment.
- Passive midspan compliant PoE support.
- Weatherproof casing and grounded terminal.
- WiFi connectivity.
- Plug-and-play design.
- Wide operating temperature range (-40 - +74°C).

## Typical WES Sites:

- City and town centres.
- Campus locations.
- Borders and perimeters.
- Remote locations.
- Government and military sites.
- Ports and harbours.
- Industrial and commercial sites.
- Retail units.
- Apartment complexes.
- Transport corridors.

Part No:	Description:
<b>K-WESII-AA-AB</b>	5dbi omni directional antenna – 5Ghz single point ap/host
<b>K-WESII-AA-CB</b>	17dbi integrated directional antenna – 5Ghz single point ap/host

Part No:	Description:
<b>K-WESII-AB-AB</b>	5dbi omni directional antenna – 5Ghz multi point ap/host
<b>K-WESII-AB-CB</b>	17dbi integrated directional antenna – 5Ghz multi point ap/host

Part No:	Description:
<b>K-WESII-AC-AB</b>	5dbi omni directional antenna – 5Ghz client
<b>K-WESII-AC-CB</b>	17dbi integrated directional antenna – 5Ghz client

Part No:	Description:
<b>K-WESII-KT</b>	Single point host and client – wireless Ethernet system kit
<b>K-WESII-KT-ED</b>	Single point host and client plus EDKT-A – wireless Ethernet system kit



# The right partner for IP Video convergence



**HD IP Day/Night IR Cameras**  
iMEGAPRO III  
3 MegaPixel Resolution



**HD IP Mini Dome Cameras**  
iMEGAPRO II  
1080P Resolution  
Quadruple Streaming



**HD IP Day/Night Vandal Resistant Cameras**  
iMEGAPRO I  
1.3MP Resolution



**IP Camera Kits**  
Network Video Recorder Kits with 4 HD IP Cameras. Choose from one of the 3 versions which all include 16 Channel CMX software



**NVR Touch**  
World's First Touch Screen  
1080P Network Video Recorder

## Committed to the latest technology with an extensive range of products, LILIN provides the answer for all your requirements

Our 30 years experience in analogue and 8 years experience in IP makes LILIN your best partner for delivering IP convergence with products that are easy to install and operate.

The first company in the World to introduce ONVIF conformant products, we are committed to open standards and delivering products that help our customers benefit from the latest technology.

With many innovative features, LILIN solutions support a number of advanced technologies such Power over Ethernet and the delivery of High Definition across the network.

Whatever your needs, LILIN can offer you the perfect solution.

- Based on open standards
- Future proof
- Fully scalable products
- ONVIF compatible
- Power over Ethernet
- Efficient H.264 compression
- High Definition images



Tel: 0870 120 5550

E: [uk@meritlilin.com](mailto:uk@meritlilin.com)

[www.LILIN.co.uk](http://www.LILIN.co.uk)

Davy Avenue, Knowlhill, Milton Keynes. MK5 8NB



# LABELLING

Networks Centre stock and distributes DYMO® Rhino and Panduit™ labelling machines and labels, designed for the data and electrical markets.

As well as offering individual products we also stock and supply their comprehensive range of labelling kits.

➤ DYMO® Rhino™	192
➤ Panduit™	196

**DYMO** Rhino™

**PANDUIT**™

## ➤ RHINO 6000 LABELLER



High end labelling tool for the demanding installation industry. DYMO have introduced the Rhino 6000 machine that is so easy to use, at the same time offering you great professional labelling.

The Rhino 6000 industrial labeller boasts many time saving features that any installation industry would benefit from including Rhinos exclusively designed hot keys for wiring, patch panels, flags and vertical labelling along with over 250 pre-programmed industrial symbols. Creating your own custom labels is a simple task on the Rhino 6000, these can be saved and instantly retrieved when required.

The DYMO thermal technology is a key benefit along with highly durable labels, available for use with the Rhino 6000 labeller. You can be sure of a label that lasts with strong adhesive and resistance to UV, heat, moisture and chemicals, these labels will not smear or move.

The Rhino 6000 also offers the capability of PC connectability when used with the Rhino connect software (included in kit). Uploading or downloading labels is an easy process, enabling you to create the right label, for the right application, every time.

### Features:

- Prints Rhino IND labelling tapes up to a 24mm width.
- Over 250 integrated industry symbols and terms.
- Produces 6 different barcodes.
- Memory capability of over 1000 labels including logos and graphics.
- Serialised numbering via a built in wizard.
- Powered label cutter.
- Powered by a rechargeable Lithium-ion battery (included).
- Slip resistant grip.
- Rubber bumper to protect from everyday bumps.
- Utilises the RHINO CONNECT™ software when connect via a USB cable to your computer (upload and download label files, insert graphics and logos, import data from Windows® based programmes, create label via integrated wizard, print labels directly from computer).

### In The Box:

- RHINO 6000 Professional Label Printer.
- AC mains power adapter.
- Rechargeable Lithium-ion battery.
- 24mm Black on White flexible nylon label cassette.
- CD with user guide.
- Quick reference guide.
- Product registration card.

### The RhinoPRO 6000 Kit includes:

- Rugged carry case.
- RhinoPRO 6000 printer.
- Rhino CONNECT software.
- 1 x 24mm flexible nylon label cassette (Black on White).
- 1 x 9mm Vinyl RhinoPRO label cassette.
- Li-ION rechargeable battery pack.
- AC power adapter.
- User manual.
- Registration card.
- USB cable.

Part No:	Description:
<b>RO-S0773780</b>	Rhino 6000 UK - yellow
<b>RO-S0771940</b>	Rhino 6000 kit UK - yellow



## ➤ RHINO 5200 LABELLER



The Rhino 5200 professional labeller has been designed for use in any industrial workplace. A tough exterior machine that produces durable labelling, the 5200 labeller can offer your business labelling results that meet with ANSI, TIA/EIA-606 labelling standards.

Enhance your labelling requirements quickly and efficiently, with the many exclusive features of the Rhino 5200 labeller. These include time saving hot keys for cabling, flags, patch panels, terminals and vertical labels, as well as, over 100 built-in industrial symbols.

Designed for use in the electrical, audio/visual, construction and datacoms industries, the portable and very versatile Rhino 5200 industrial labeller, will ensure your labels are of a professional quality that lasts.

### Features:

- Large backlit two line display screen.
- Complies with labeling standards ANSI, TIA/EIA-606-A.
- Produces Code 39 and Code 128 barcodes (19mm labels).
- 'Hot key' for auto sizing, spacing and format of labels.
- Integrated symbol library of industry symbols, fractions, punctuation and currency.
- Slip resistant grip.
- Rubber bumper to protect from everyday bumps.
- Integrated lanyard loop.
- Utilises Rhino 'easy peel' IND tapes.
- Requires 6 AA batteries or a rechargeable Lithium-ion battery supplied with kit.
- Auto power shut off when not in use.
- FREE 19mm black on white flexible nylon label cassette.

### In the Box:

- RHINO 5200 Professional Label Printer.
- User guide on CD.
- Quick reference guide.
- 19mm Black on White flexible nylon tape cassette.

### The Rhino 5200 Kit includes:

- RHINO 5200 Professional Label Printer.
- Hard carry case.
- AC mains power adapter.
- Rechargeable Lithium-ion battery.
- Quick reference guide.
- 19mm Black on White flexible nylon tape cassette.
- 12mm Black on White vinyl tape cassette.

Part No:	Description:
<b>RO-S0841460</b>	Rhino 5200 UK - yellow
<b>RO-S0841390</b>	Rhino 5200 kit UK - yellow





## ► RHINO 4200



The new DYMO® Rhino™ 4200 gets labelling jobs done fast – and done right. Easily navigate the familiar QWERTY keyboard. Use one-touch “Hot Key” shortcuts to quickly create and format wire/cable wraps, flags, Code 39 and Code 128 barcodes, fixed-length labels, breaker labels and more.

Print labels up to 19mm wide in flexible nylon, permanent polyester and durable vinyl materials – PLUS print directly on heat-shrink tubes. Save even more time with great new features – like the ‘Favourites’ key which provides single-key access to commonly used labels, symbols and terms; and the ‘Custom’ key which eliminates repeated steps by saving customised settings.

### Product specifications:

- Runs on optional rechargeable lithium-ion battery pack or 6 AA batteries.
- 1 year warranty + 1 year extra when registering.
- Unit weight: 770 grams.

### Features:

- Familiar computer-style QWERTY keyboard for fast and easy text entry.
- Patented “Hot Keys” provide shortcuts for creating and formatting wire/cable wraps, flags, Barcode 39 and Barcode 128, fixed-length, general and module labels.
- Print 6mm, 9mm, 12mm and 19mm wide industrial-strength labels in a variety of materials and colours – PLUS print directly on heat-shrink tubes.
- “Favorites” key provides single-key access to your most commonly used labels, symbols and terms.
- Avoid repeated steps with the “Custom” key – customise and save settings for individual label formats.
- Pre-programmed library with 150 symbols and terms for security, electrical, pro A/V, and facilities management.
- Integrated rubber bumpers help prevent damage from accidental drops and falls.
- Large back-lit display is easy to read, even in dimly-lit work areas.
- Auto save/auto power-off – extend battery life without losing current work.
- Runs on 6 AA batteries (not included) – also compatible with quick-charging Lithium-ion battery (sold as an accessory).

### Box includes:

- Rhino™ 4200 printer.
- Quick reference guide.
- 19 mm white flexible nylon tape.

### Part No:

**RO-S0955950**

### Description:

Rhino 4200 QWERTY 19mm PB1 UK - orange

Label it fast  
Label it once  
Label it right

**DYMO® Rhino™**



Can't find what you're looking for? Then contact us...



## ► LABELS



**LABELS  
THAT STICK AND  
STAY STUCK**

DYMO® Industrial labels are tough, jobsite tested and UL recognised. Labels won't smear or fade and are built with industrial-strength adhesives to resist moisture, UV light and extreme temperatures. Whether you are labelling to OSHA, ISO and ANSI colour standards or labelling in harsh conditions, DYMO® Industrial labels have you covered. DYMO® Industrial labels are designed to work exclusively with Rhino™ printers and to perform on a variety of surfaces.

LABEL APPLICATIONS	LABEL COLOUR	6 mm	9 mm	12 mm	19 mm	24 mm
<b>VINYL</b> ► UL Recognised Component to UL969 ► RoHS compliant ► Length: 5.5m	BLACK ON WHITE	–	RO-18443	RO-18444	RO-18445	–
	BLACK ON YELLOW	–	–	RO-18432	RO-18433	–
	BLACK ON ORANGE	–	–	RO-18435	RO-18436	–
<b>PERMANENT POLYESTER</b> ► UL Recognised Component to UL969 ► RoHS compliant ► Length: 5.5m	BLACK ON WHITE	–	RO-18482	RO-18483	RO-18484	RO-1734523
	BLACK ON CLEAR	–	RO-18508DMO	–	–	–
	BLACK ON METALLIC	–	RO-18485	RO-18486	RO-18487	–
<b>HEAT SHRINK TUBES</b> ► UL Recognised Component to UL224 ► Meets MIL-STD-202G, MIL-M-81531 and SAE-DTL 23053/5 (Class 1 and 3) ► RoHS compliant ► Length: 1.5m	BLACK ON WHITE	RO-18051	RO-18053	RO-18055	RO-18057	–
	BLACK ON YELLOW	RO-18052	RO-18054	RO-18056	RO-18058	–
<b>FLEXIBLE NYLON</b> ► UL Recognised Component to UL969 ► RoHS compliant ► Length: 3.5m	BLACK ON WHITE	–	–	RO-18488	RO-18489	RO-1734524
	BLACK ON YELLOW	–	–	RO-18490	RO-18491	RO-1734525
<b>NON-ADHESIVE TAG</b> ► RoHS compliant ► Length: 5.5m	BLACK ON WHITE	RO-18111	–	RO-18113	–	–
<b>SELF-LAMINATING</b> ► RoHS compliant ► Length: 5.5m	BLACK ON WHITE	–	–	–	–	RO-1734821

## ➤ HANDHELD THERMAL PRINTER



### Features:

- Innovative QWERTY keypad design delivers faster text entry and label design for enhanced productivity.
- Cut-to-length functionality eliminates label waste and label trimming labour.

- Partial cut feature available to provide tear-apart strips of labels or individual cut labels for application flexibility and quicker installation.
- Market specific labeling tools simplify label creation for network components, panel building, and construction and maintenance.
- Prints self-laminating labels, heat shrink tubing, die-cut component labels, marker plates, flag labels, and continuous tape for improved printer versatility.
- Label cassette contains integrated memory device for automatic formatting, recall of last legend used and number of labels remaining in cassette for improved efficiency.
- Fast loading label cassette includes both label material and ribbon for easy label changeover.
- USB interface for importing data, system upgrades and printing from a wireless laptop or desktop computer to increase printer functionality.
- Large graphic display with backlight improves visibility; ideal for printing labels at a remote jobsite.

Part No:	Description:
<b>PT-LS8EQ</b>	Includes LS8EQ printer with QWERTY keypad, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, and quick reference card
<b>PT-LS8EQ-KIT</b>	Includes LS8EQ printer with QWERTY keypad, one cassette of S100X150VAC self-laminating labels, six AA alkaline batteries, LS8-CASE, LS8-PCKIT, LS8-IB, LS8-WS, quick reference card, and operator's manual

## ➤ HANDHELD THERMAL PRINTER



### Features:

- Innovative QWERTY keypad design delivers faster text entry and label design for enhanced productivity.
- Economical identification system provides premium quality solutions at the lowest installed cost.
- Cut-to-length functionality eliminates label waste and label trimming labour.
- Partial cut feature available to provide tear-apart strips of labels or individual cut labels for application flexibility and quicker installation.
- P1™ Label Cassette contains an integrated memory device for automatic formatting, recall of last legend used, and number of labels remaining in the cassette to increase reliability and productivity.
- Legends can be easily aligned with ports on patch panels and faceplates, eliminating the need for manual spacing and guesswork for improved efficiency.
- Prints a wide variety of continuous tapes for marking of wires/cables, patch panels, faceplates, safety/facility identification and other network and electrical applications.
- Prints continuous military and commercial grade heat shrink tubing for improved printer versatility.
- Fast loading label cassette includes both label material and ribbon for easy label changeover.

\*Cannot be used to charge batteries.

Part No:	Description:
<b>PT-LS9Q</b>	Includes LS9Q printer with QWERTY keypad, one cassette of T100X000C1C-BK continuous nylon cloth tape, six AA alkaline batteries, and quick reference card



Can't find what you're looking for? Then contact us...

## ► DESKTOP THERMAL TRANSFER PRINTER



The TDP43ME desktop printer, designed to work with Panduit™ labeling software and media, quickly creates high-quality printed identification for Industrial Automation, Network Infrastructure, OEM, MRO, and Construction applications. This easy to set-up and operate printer, produces crisp, clear, durable printed legends on wire and cable markers, terminal block labels, conduit and voltage markers, control panel labels, patch panel labels, safety signs, and pipe markers.

### Features:

- Compatible and easy setup with Panduit™ software and media.
- High-quality printed legends.
- Durable construction.
- Easy-Mark™ Labeling Software included with printer.
- Up to 4 inches per second print speed.

Part No:	Description:
<b>PT-TDP43ME</b>	300 dpi printer; includes printer, Panduit™ Easy-Mark™ Labeling Software, RMEH4BL hybrid black ribbon, AC power adapter with US and Europlug power cords, USB cable, user manual, quick start card, and driver disk.
<b>PT-TDP43ME-RS</b>	External label roll stand used to feed label media, supplied on 3-inch cores, through the rear of the printer.

## ► LABELS

Cassette Type	Part No	Information
<b>Component Label for PT-LS8EQ</b> <ul style="list-style-type: none"> <li>► Fast loading P1™ Label Cassette includes both label material and ribbon to make changing labels easy</li> <li>► Multi-purpose labels for identifying flat surfaces such as components, control panels, circuit boards and general labeling</li> <li>► Die-cut labels designed to provide maximum aesthetic quality and appearance</li> <li>► Vinyl cloth labels can be repositioned or reused</li> <li>► Super tack adhesive labels are ideal for rough, textured, or coated surfaces</li> <li>► Tamper resistant, destructible labels are designed to prevent easy removal</li> </ul>	PT-C060X020YJC	P1 Cassette, Comp Label, Adhesive Polyester, .60" W x .20" H, White
	PT-C100X050YJC	P1 Cassette, Comp Label, Adhesive Polyester, 1.00" W x .20" H, White
	PT-C100X050YMC	P1 Cassette, Comp Label, Adhesive Polyester, .60" W x .20" H, White
	PT-C125X030FJC	P1 Cassette, Comp Label, Adhesive Polyester, .60" W x .20" H, White
	PT-C150X075YJC	P1 Cassette, Comp Label, Adhesive Polyester, .60" W x .20" H, White
	PT-C200X100YJC	P1 Cassette, Comp Label, Adhesive Polyester, .60" W x .20" H, White
	PT-C200X100YMC	P1 Cassette, Comp Label, Adhesive Polyester, .60" W x .20" H, White
	PT-C252X030FJC	P1 Cassette, Comp Label, Adhesive Polyester, .60" W x .20" H, White
<b>Heatshrink Label for PT-LS8EQ</b> <ul style="list-style-type: none"> <li>► Labels offer crisp, clear legends with superior legibility</li> <li>► Meets UL Standard 224 for flammability</li> <li>► Shrink ratio 3:1</li> <li>► Each cassette contains a continuous roll of flattened polyolefin that can be cut-to-length and partially cut</li> <li>► For use in PanTher™ LS8 and Cougar™ LS9 Hand-Held Thermal Transfer Printers</li> </ul>	PT-H000X025F1C	P1 Cassette, Continuous Heatshrink Tubing, Polyolefin, 8' W x .25" H, White
	PT-H000X025H1C	P1 Cassette, Continuous Heatshrink Tubing, Mil Grade Polyolefin, 8' W x .25" H, White
	PT-H000X025H2C	P1 Cassette, Continuous Heatshrink Tubing, Mil Grade Polyolefin, 8' W x .25" H, Yellow
	PT-H000X034F1C	P1 Cassette, Continuous Heatshrink Tubing, Polyolefin, 8' W x .34" H, White
	PT-H000X034H2C	P1 Cassette, Continuous Heatshrink Tubing, Mil Grade Polyolefin, 8' W x .34" H, Yellow
	PT-H000X044F1C	P1 Cassette, Continuous Heatshrink Tubing, Polyolefin, 8' W x .44" H, White
	PT-H000X044H2C	P1 Cassette, Continuous Heatshrink Tubing, Mil Grade Polyolefin, 8' W x .44" H, Yellow
	PT-H000X084F1C	P1 Cassette, Continuous Heatshrink Tubing, Polyolefin, 8' W x .84" H, White

## ➤ LABELS continued

Cassette Type	Part No	Information
<b>Marker Plates for PT-LS8EQ</b> <ul style="list-style-type: none"> <li>➤ Fast loading P1™ Label Cassette includes both label material and ribbon to make changing labels easy</li> <li>➤ Marker plates are designed for use on larger diameter wire/cables and may be applied after all terminations are complete</li> <li>➤ Meets requirements for MIL-STD-202F, Notice 12 Method 215J</li> </ul>	PT-M300X050Y6C	P1 Marker Plate 3" x .50" Yellow
	PT-M300X050Y7C	P1 Marker Plate 3" x .50" White
<b>Turn-Tell Label for PT-LS8EQ</b> <ul style="list-style-type: none"> <li>➤ Fast loading P1™ Label Cassette includes both label material and ribbon to make changing labels easy</li> <li>➤ Innovative label design allows labels to rotate for visibility from any angle, and for repositioning on the wire/cable to align legends and improve aesthetics</li> <li>➤ Labels can be easily installed on existing terminated wires and assemblies without disconnecting the wires/cables</li> </ul>	PT-R100X075V1C	P1 Cassette, Turn-Tell Self-Lam Label, Vinyl, 1.00" W x 0.75" H, .25" POA, Clear/White
	PT-R100X125V1C	P1 Cassette, Turn-Tell Self-Lam Label, Vinyl, 1.00" W x 1.25" H, .25" POA, Clear/White
	PT-R100X150V1C	P1 Cassette, Turn-Tell Self-Lam Label, Vinyl, 1.00" W x 1.50" H, .25" POA, Clear/White
<b>Self-laminating Label for PT-LS8EQ</b> <ul style="list-style-type: none"> <li>➤ Fast loading P1™ Label Cassette includes both label material and ribbon to make changing labels easy</li> <li>➤ Self-laminating adhesive labels for wire/cable identification include a coloured print-on area and clear overlamine</li> </ul>	PT-S050X075VAC	P1 Cassette, Self-Lam Label, Vinyl, .50" W x .75" H, .25" POA, Clear/White
	PT-S050X150VAC	P1 Cassette, Self-Lam Label, Vinyl, .50" W x 1.50" H, .25" POA, Clear/White
	PT-S075X150VAC	P1 Cassette, Self-Lam Label, Vinyl, .75" W x 1.50" H, .25" POA, Clear/White
	PT-S100X125VAC	P1 Cassette, Self-Lam Label, Vinyl, 1.0" W x 1.25" H, .25" POA, Clear/White
	PT-S100X150VAC	P1 Cassette, Self-Lam Label, Vinyl, 1.0" W x 1.50" H, .25" POA, Clear/White
	PT-S100X150VBC	P1 Cassette, Self-Lam Label, Vinyl, 1.00" W x 1.50" H, .50" POA, Clear/Blue
	PT-S100X150VHC	P1 Cassette, Self-Lam Label, Vinyl, 1.00" W x 1.50" H, .50" POA, Clear/Red
	PT-S100X150VIC	P1 Cassette, Self-Lam Label, Vinyl, 1.00" W x 1.50" H, .50" POA, Clear/Yellow
	PT-S100X160VAC	P1 Cassette, Self-Lam Label, Vinyl, 1.00" W x 1.60" H, .80" POA, Clear/White
	PT-S100X225VAC	P1 Cassette, Self-Lam Label, Vinyl, 1.00" W x 2.25" H, .75" POA, Clear/White
	PT-S100X400VAC	P1 Cassette, Self-Lam Label, Vinyl, 1.00" W x 4.00" H, 1.00" POA, Clear/White
	PT-S100X650VAC	P1 Cassette, Self-Lam Label, Vinyl, 1.00" W x 6.50" H, 1.50" POA, Clear/White
<b>Continuous Tape for PT-LS9Q AND PT-LS8EQ</b> <ul style="list-style-type: none"> <li>➤ Fast loading P1™ Label Cassette includes both label material and ribbon to make changing labels easy</li> <li>➤ Print terminal block labels ranging in size from 0.19 inches to 0.38 inches</li> </ul>	PT-T024X000FJC-BK	P1 Cassette, Continuous Tape, Polyolefin, .24" W x 25' L, White/Black
	PT-T031X000FJC-BK	P1 Cassette, Continuous Tape, Polyolefin, .31" W x 25' L, White/Black
<b>Continuous Tape for PT-LS9Q AND PT-LS8EQ</b> <ul style="list-style-type: none"> <li>➤ Fast loading P1™ Label Cassette includes both label material and ribbon to make changing labels easy</li> <li>➤ Print terminal block labels ranging in size from 0.19 inches to 0.38 inches</li> </ul>	PT-T038X000VPC-BK	P1 Cassette, Continuous Tape, Vinyl, .38" W x 25' L, White/Black
	PT-T050X000VPC-BK	P1 Cassette, Continuous Tape, Vinyl, .50" W x 25' L, White/Black
	PT-T050X000VXC-BK	P1 Cassette, Continuous Tape, Vinyl, .50" W x 25' L, Yellow/Black
	PT-T075X000VPC-BK	P1 Cassette, Continuous Tape, Vinyl, .75" W x 25' L, White/Black





## ➤ LABELS continued

Cassette Type	Part No	Information
<b>Continuous Tape for PT-LS9Q AND PT-LS8EQ</b> <ul style="list-style-type: none"> <li>➤ Fast loading P1™ label cassette includes both label material and ribbon to make changing labels easy</li> <li>➤ Non-laminated adhesive labels for wire/cable identification</li> <li>➤ Nylon cloth labels can be repositioned or reused</li> </ul>	PT-T100X000C1C-BK	P1 Cassette, Continuous Tape, Nylon Cloth, 1.00"(25.4mm) x18"(5.49m), White/Black
<b>Continuous Tape for PT-LS9Q AND PT-LS8EQ</b> <ul style="list-style-type: none"> <li>➤ Fast loading P1™ label cassette includes both label material and ribbon to make changing labels easy</li> <li>➤ Non-laminated adhesive labels for wire/cable identification</li> <li>➤ Vinyl cloth labels can be repositioned or reused</li> </ul>	PT-T100X000CBC-BK	P1 Cassette, Continuous Tape, Vinyl Cloth, 1.00" W x 12.5' L, White/Black
<b>Continuous Tape for PT-LS9Q AND PT-LS8EQ</b> <ul style="list-style-type: none"> <li>➤ Fast loading P1™ Label Cassette includes both label material and ribbon to make changing labels easy</li> <li>➤ Print terminal block labels ranging in size from 0.19 inches to 0.38 inches</li> </ul>	PT-T100X000VPC-BK	P1 Cassette, Continuous Tape, Vinyl, 1.00" W x 25' L, White/Black
	PT-T100X000VXC-BK	P1 Cassette, Continuous Tape, Vinyl, 1.00" W x 25' L, Yellow/Black
<b>Thermal Transfer Ribbons for PT-TDPM43ME</b> <ul style="list-style-type: none"> <li>➤ Hybrid – Recommended for use with self-laminating, heat shrink, component and non-laminated labels</li> <li>➤ Wax – Recommended for use with self-laminating and non-laminated labels</li> <li>➤ Resin – Recommended for use with component labels, marker plates, and continuous tape</li> </ul>	PT-RMEH2BL	Ribbon, Hybrid, 2.50 inches wide, Black, 91.44 metres
	PT-RMEH4BL	Ribbon, Hybrid, 4.25 inches wide, Black, 91.44 metres
	PT-RMER2BL	Ribbon, Resin, 2.50 inches wide, Black, 91.44 metres
	PT-RMER4BL	Ribbon, Resin, 4.25 inches wide, Black, 91.44 metres
	PT-RMER2WH	Ribbon, Resin, 2.50 Inches Wide, White, 91.44 metres
	PT-RMER4WH	Ribbon, Resin, 4.25 Inches Wide, White, 91.44 metres
	PT-RMER4RD	Ribbon, Resin, 4.25 inches wide, Red 91.44 metres

# Can't find what you're looking for?

## Visit [www.networkscentre.com](http://www.networkscentre.com)

The image shows a variety of network cables including Cat5e, Cat6, and fiber optic cables. A magnifying glass is focused on a technical specification sheet for a cable, highlighting details like 'Category 5e, low smoke zero halogen (LSZH), 4-pair, UTP, blue copper cable' and 'Category 5e, PVC (CMG), 4-pair, UTP, blue copper cable'. The background is a collage of these cables and their packaging.

## 1. DEFINITIONS

- 1.1 "Buyer / You" means the Account Applicant or person who buys or agrees to buy Goods from the Seller.
- 1.2 "Conditions" means the Terms and Conditions of Sale set out in this document and any special conditions agreed in writing by the Seller.
- 1.3 "Contract" means the contract for the sale and purchase of the Goods;
- 1.4 "Goods" means the articles the Buyer agrees to buy from Networks Centre.
- 1.5 "Seller / Us / We" means Networks Centre Limited of Networks House, Unit 4, Lawson Hunt Industrial Park, Broadbridge Heath, West Sussex.

## 2. CONDITIONS

- 2.1 The Seller shall sell and the Buyer shall purchase the Goods in accordance with any written order of the Buyer which is accepted by the Seller subject to these Conditions which shall govern the Contract to the exclusion of any other terms and conditions subject to which any such order is made or purported to be made by the Buyer.
- 2.2 These Conditions do not affect your statutory rights as a consumer. If you are a consumer, please contact us.
- 2.3 No amendment to these Conditions shall be effective unless it is in writing and signed by or on behalf of the Seller and the Buyer.
- 2.4 Acceptance of the Goods shall be deemed conclusive evidence of the Buyer's acceptance of these Conditions.

## 3. PRICES

- 3.1 The price of the Goods shall be the price as set out in the Seller's current price list and as quoted to the Buyer plus any additional costs if applicable.
- 3.2 If the Seller changes its prices for Goods between receipt of order from the Buyer and dispatch to the Buyer, the Seller will notify the Buyer who will then be entitled to cancel the order and receive a full refund. If the Seller does not receive notice of cancellation within 5 days of receipt of notice from the Seller, the Buyer will be deemed to have accepted the change in price.
- 3.3 All Prices are exclusive of VAT and charges for packing, postage and carriage (plus VAT) which shall be paid in addition.
- 3.4 The total purchase price, including VAT and Delivery charges will be displayed in the Buyer's total prior to confirming the order.
- 3.5 The Seller shall be entitled to invoice each delivery of Goods separately.
- 3.6 Unless otherwise agreed in writing by the Seller, payment is due in full not more than 30 days from the date of invoice. Time for payment shall be of the essence and any failure to pay shall entitle the Seller at its option to treat the Contract as repudiated by the Buyer or to delay delivery until paid.
- 3.7 If any act or proceedings shall be commenced in which the Buyer's solvency is concerned, all monies under any

transaction covered by these Conditions shall become immediately due and payable.

- 3.8 If full payment is not made to the Seller, the Seller may withhold or suspend future or current deliveries of the product under any other agreement with the Buyer.

## 4. INTEREST ON OVERDUE INVOICES

- 4.1 Interest on overdue invoices shall accrue from the date when payment becomes due from day to day until the date of payment before as well as after any judgment at 4.5% above the base rate of HSBC Bank Plc compounded monthly.

## 5. DELIVERY

- 5.1 Whilst every reasonable effort shall be made to keep any delivery date, time of delivery shall not be of the essence and the Seller shall not be liable for any losses, costs, damages or expenses incurred by the Buyer or any other person or company arising directly or indirectly out of any failure to meet any estimated delivery date. Failure shall not be deemed to be breach of the contract, or these Conditions.
- 5.2 Delivery of the Goods shall be made to the Buyer's address and the Buyer shall make all arrangements necessary to take delivery of the Goods whenever they are tendered for delivery.
- 5.3 The Seller reserves the right to deliver Goods in instalments.
- 5.4 Where Goods are delivered in instalments, each delivery will be a separate and distinct contract and any failure by the Seller to deliver, or any claim by the Buyer in respect of, any stage shall not entitle the Buyer to reject or terminate this contract as a whole.
- 5.5 Where Goods are delivered by a third party carrier, the Seller shall have no liability to the Buyer for any failure to deliver the Goods on or before any agreed time or date. The Seller's maximum liability for any such failure shall be the charges paid to the carrier in respect of any such delivery.

## 6. INSPECTION, DELAY AND NON-DELIVERY OF THE GOODS

- 6.1 The Goods must be inspected by the Buyer or an authorised representative of the Buyer, as soon as possible after the delivery of the Goods.  
  
The Buyer must give notice in writing to the Seller within 7 days of delivery setting out in detail any defect in the Goods including any shortages, and any other complaint which the Buyer may have in relation to the Goods.
- 6.2 If the Buyer does not advise the Seller as set out in condition 6.1, then the Goods shall be deemed to be in accordance with the contract and free from defect and the Buyer shall be deemed to have accepted the Goods accordingly. After the Buyer accepts the Goods it will not be entitled to reject the Goods which are not in accordance with the contract.
- 6.3 Except as above, the Seller under no circumstances will be liable to compensate the Buyer in damages or otherwise for non-delivery or late delivery of the Goods or any of them for whatever reason or for any loss consequential or otherwise arising from non-delivery or late delivery.



- 6.4 In spite of the Seller having delayed or failed to deliver the Goods promptly, the Buyer shall be bound to accept delivery and to pay for the Goods in full providing that the delivery shall be tendered at any time within 14 days of the delivery date.

## 7. CANCELLATIONS

- 7.1 Cancellations or part cancellations cannot be accepted unless the Buyer reaches agreement with the Seller and the Seller confirms cancellation in writing to the Buyer.

## 8. TITLE AND RISK

- 8.1 Risk of damage to or loss of the Goods shall pass to the Buyer upon delivery.
- 8.2 Notwithstanding delivery and the passing of risk in the Goods property in the Goods shall not pass from the Seller until:
- 8.2.1 the Seller has received either cash or cleared funds in respect of the full amount due (Inc VAT), and
- 8.2.2 No other payments are due from the Buyer to the Seller.
- 8.3 Until property in the product passes to the Buyer in accordance with condition 8.2 the Buyer shall store the Goods, at no cost to the Seller, in such a way as to be clearly separate and identifiable from the Buyer's other Goods and Goods. The Buyer will allow the Seller the right to enter onto the Buyer's premises for the purpose of recovering such Goods at any time until payment.
- 8.4 Notwithstanding that the Goods remain the property of the Seller the Buyer may sell or use the Goods in the ordinary course of the business at full market value for the account of the Seller. Any such sale or dealing shall be a sale or use of the Seller's property by the Buyer on the Buyer's own behalf and the Buyer shall deal as principal when making such sales or dealings. Until property in the Goods passes from the Seller the entire proceeds of sale or otherwise of the Goods shall be held in trust for the Seller and shall not be mixed with other money or paid into any overdrawn bank account and shall be at all material times identified as the Seller's money.
- 8.5 The Seller shall be entitled to recover the cost and VAT notwithstanding that the property in any of the Goods has not passed from the Seller.
- 8.6 The Buyer shall not pledge or in anyway charge by way of security for any indebtedness any of the Goods which are the property of the Seller.
- Without prejudice to the other rights of the Seller, if the Buyer does so all sums whatever owing by the Buyer shall forthwith become due and payable.
- 8.7 The Buyer shall insure the Goods to the full price including VAT against all risks to the Sellers satisfaction until the Goods pass from the Seller, and whenever requested by the Seller, produce a copy of the insurance policy. If the Buyer fails to do so, all sums whatever owing by the Buyer will become due and payable.
- 8.8 The Buyer may not withhold payment of any invoice or any other amount due to the Seller by reason of any right of set-off or counterclaim which the Buyer may have or alleges to have or for any other reason.

*Continued over...*





- 8.9 Any Goods supplied to the Buyer which are subject to restrictions or provisions imposed by the manufacturer design (including copyright, design right or other intellectual property) are supplied to the Buyer by the Seller subject to any such license restriction or provisions in respect of which the Seller will use reasonable endeavours to notify the Buyer of the same.

## 9. WARRANTY AND LIABILITY

- 9.1 The Seller warrants as follows:
- 9.1.1 The Goods at the time of delivery correspond to the description given by the Seller.
  - 9.1.2 It will repair or replace Goods which do not conform with condition 9.1.1.
- 9.2 These Conditions set out the Seller's entire liability in respect of the Goods and the Seller's liability under these Conditions shall be in lieu and to the exclusion of all other warranties, conditions, terms and liabilities express or implied statutory or otherwise in respect of the quality or the fitness for any particular purpose of the Goods or otherwise howsoever except any implied law which by law can be excluded.
- 9.3 In no event shall any breach of any express or implied terms of the contract between the Seller and the Buyer, or any order accepted by the Seller, or in respect of any defect in the Goods give rise to any liability for damages, loss of revenue or profits or future business, damage to reputation or goodwill, loss of any orders or contract or consequential loss or damage arising from any fault.

## 10. RETURNS PROCEDURE

- 10.1 In the event that the Buyer issues notice to the Seller pursuant to condition 6.1, the Buyer shall return to the Goods to the Seller in accordance with this condition 10. The Buyer's sole remedy in respect of non compliance with condition 9.1 shall be limited to the repair or, at the Seller's discretion, the replacement of the Goods or where sums are owed by the Buyer to the Seller, the issue of a credit note against return of Goods.
- 10.2 Returns must be authorised by the Seller before any Goods are returned. If it is agreed that the Goods are to be returned:
- 10.2.1 The Buyer shall obtain a returns number for those Goods from the Seller.
  - 10.2.2 The returns number must be clearly displayed shown on the returned parcels. The Buyer acknowledges that Goods returned without a returns number clearly identifiable on the packaging will be refused or returned to sender.
  - 10.2.3 The Buyer must return the Goods suitably packaged and with carriage paid
  - 10.2.4 The Buyer will be liable for the cost of remedying any damage to the Goods returned where such damage has, in the opinion of the Seller, been caused by the Goods being inadequately packaged by the Buyer or through the Buyer's fault.
  - 10.2.5 The Seller reserves the right to make a handling and restocking charge of at least 25% on Goods which are returned if they were ordered in error or are no longer required.

## 11. FORCE MAJEURE

- 11.1 In the event that the Seller is prevented from carrying out its obligations under a contract for sale as a result of any cause beyond its control such as but not limited to Acts of God, War, Strikes, Lock-outs, Flood and Failure of third parties to deliver Goods, the Seller shall be relieved of its obligations and liabilities under such contract for sale for as long as such fulfilment is prevented.

## 12. INSOLVENCY

- 12.1 If the Buyer fails to pay for the Goods in accordance with these Terms, or commits any breach of this contract of sale or if any distress shall be levied upon any of the Buyer's Goods or if the Buyer offers to make any agreement with its creditors or commits an act of bankruptcy or if any petition in bankruptcy is presented against the Buyer or the Buyer is unable to pay its debts as they fall due or if being a limited company any resolution or petition to wind up the Buyer shall be passed or presented or if a receiver administrator, administrative receiver or manager shall be appointed over the whole or any part of the Buyer's business or assets or if the Buyer shall suffer any similar proceedings under foreign law all sums outstanding in respect of the Goods shall become payable immediately. The Seller may in discretion and without any prejudice to any other rights it may have:
- 12.1.1 suspend all future deliveries of Goods to the Buyer and / or terminate the contract without liability upon its part; and / or
  - 12.1.2 exercise any of its rights pursuant to Condition 9.

## 13. ENTIRE AGREEMENT

- 13.1 These Conditions constitute the entire agreement and understanding between the parties and supersedes all prior agreements, understandings or arrangements (whether oral or written) in respect of the subject matter of this Contract.
- 13.2 This agreement shall be binding upon the heirs, successors and assigns of the parties hereto. If any provision of this agreement shall be held to be invalid or unenforceable, the remainder of this agreement shall remain in full force and effect.

## 14. GENERAL

- 14.1 Any notice to either party under these Conditions shall be in writing signed by or on behalf of the party giving it and shall, unless delivered to a party personally, be left at or sent by prepaid first class post, prepaid recorded delivery, telex or facsimile to the address of the party as notified in writing from time to time.
- 14.2 Either party may, in whole or in part, release, compound, compromise, waive or postpone, in its absolute discretion, any liability owed to it or right granted to it under the Contract by the other party without in any way prejudicing or affecting its rights in respect of any other liability or right not so released, compounded, compromised, waived or postponed.
- 14.3 No single or partial exercise or failure or delay in exercising any right, power or remedy by either party shall constitute



a waiver by that party of, or impair or preclude any further exercise of that or any right, power or remedy arising under the Contract or otherwise.

- 14.4 To the extent that any provision of these Conditions is found by any court or competent authority to be invalid, unlawful or unenforceable in any jurisdiction, that provision shall be deemed not to be a part of these Conditions, it shall not affect the enforceability of the remainder of these Conditions nor shall it affect the validity, lawfulness or enforceability of that provision in any other jurisdiction.
- 14.5 Any reference in these Conditions to any provision of a statute shall be construed as a reference to that provision as amended, re-enacted or extended at the relevant time.
- 14.6 The headings in these Conditions are for convenience only and shall not affect their interpretation.
- 14.7 Unless expressly provided in this Contract, no term of this Contract is enforceable pursuant to the Contracts (Rights of Third Parties) Act 1999 by any person who is not a party to it.

## 15. LAW OF CONTRACT

- 15.1 This Contract shall be governed by and construed in accordance with English law.
- 15.2 Each of the parties irrevocably submits for all purposes in connection with these Conditions to the exclusive jurisdiction of the courts of England.



# HOW TO FIND US

networkscentre.

networkscentre.



Networks Centre Ltd, Head Office, Lawson Hunt Industrial Park, Broadbridge Heath, West Sussex RH12 3JR

01403 754 233 01403 750 663 @enquiries@networkscentre.com www.networkscentre.com



 [www.networkscentre.com](http://www.networkscentre.com)